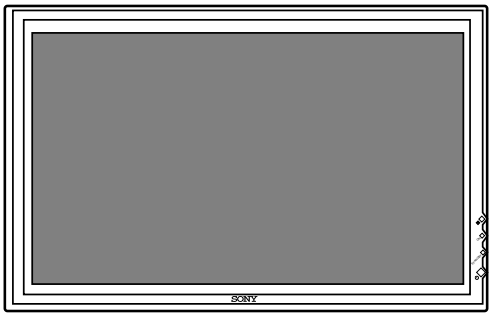
COLOR MONITOR
SERVICE MANUAL

CHASSIS NO. : CL-50

MODEL: PFM42V1, PFM42V1A, PFM-42V1E

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.



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SPECIFICATIONS

1. PDP CHARACTERISTICS

Type	: WVGA Module
Size	: 42 inch
Display area	: 920.1 (H) x 518.4 (V)±0.5mm
Cell Pitch	: 396um (H) x 1080um (V) (stand for Green Cell)
Number of gradations	: 256 steps for RGB
Peak Brightness	: Typ.1000 cd/㎡(1/25white window)
Electrical Interface	: LVDS
Contrast Ratio	: Typ.1000:1(In dark room with 1/25 white)
Power Consumption	: Typ.230W(Full White Pattern)

2. OPTICAL CHARACTERISTICS

2-1. White Peak Brightness: 297.5Min(cd/㎡)
(1/25 White window with 40% scren filter RGB mode)

2-2. White Average Brightness: 60Min(Full White window)

3. ENGINEERING SPEC

3-1. Sync Signal
• Type : Composite Video, Y/C, Component(Y/Cb/Cr), Hivision(Y/Pb/Pr), Analog RGB, DVI-D(TMDS)

3-2. Video Input Signal

1) Composite Video	: 75 Ω terminated(Auto) NTSC 3.58, PAL 4.43, SECAM, NTSC4.43, PAL60, PAL-N PAL-M: 1Vp-p
2) Y/C	: 75 Ω terminated Y: 1Vp-p, Minus Sync C: 0.286Vp-p(NTSC)/0.3Vp-p(PAL)
3) Component (Y/Cb/Cr)	: 75 Ω terminated NTSC: 0.714Vp-p/PAL: 0.7Vp-p SYNC_ON Y: 0.286Vp-p(NTSC) 0.3Vp-p(PAL)
4) Hivision (Y/Pb/Pr)	: 75 Ω terminated Y: 1Vp-p, Trilevel Sync Pb, Pr: 0.7Vp-p
5) Analog RGB	: 75 Ω terminated (fH=15~96kHz, fV=48~85Hz) R/G/B: 0.7Vp-p SYNC: H/V Separate 1-5Vp-p, High Impedance, H/V Composite: 1-5Vp-p, High Impedance, SYNC_ON_GREEN 0.286Vp-p
6) DVI-D	: TMDS

3-3. Operating Frequency

Horizontal	: 15 ~ 96kHz **(ANALOG)**
Horizontal	: 28 ~ 81kHz **(DIGITAL)**
Vertical	: 48 ~ 85Hz

5. POWER SUPPLY

5-1. Power : AC 100-240V±5V, 50/60Hz±2%

5-2. Power Consumption

MODE	VIDEO	Wattage	LED COLOR
NORMAL	YES	350 W	GREEN
Stand By	NO	3 W	RED
AC OFF	NO	0W	OFF

6. ENVIRONMENT

6-1. Operating Temperature: 0°C~+35°C (32°F~95°F)

6-2. Relative Humidity : 20%~90%
(No dew condensation)

6-3. Altitude :~2,000m

7. DIMENSIONS

Width	: 1,033 mm (40.67")
Depth	: 102 mm (4.01')
Height	: 631 mm (24.84")

8. WEIGHT

Net. Weight	: 27.6kg (60.86 lbs)
Gross Weight	: 36.2kg (79.81 lbs)

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. ***These parts are marked ⚠on the schematic diagram and the replacement parts list.*** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

⚠ CAUTION

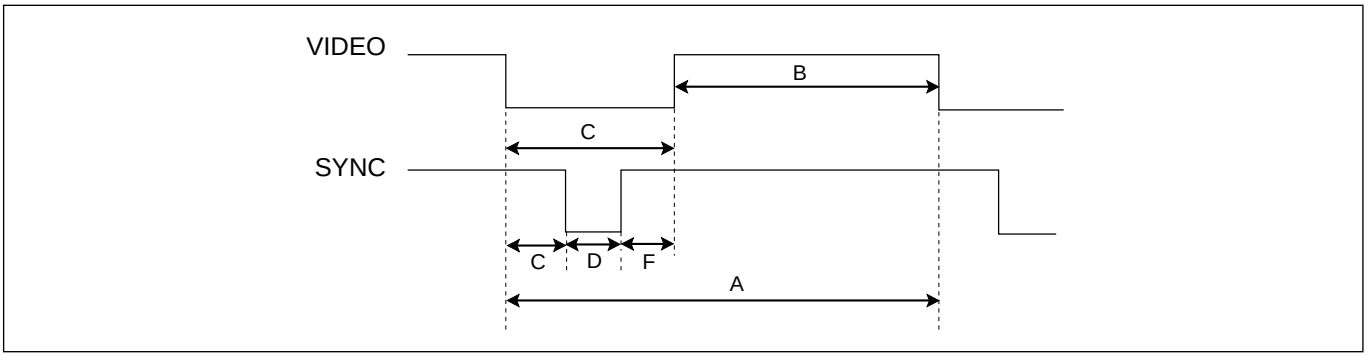
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

⚠ WARNING

BE CAREFUL ELECTRIC SHOCK !

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

TIMING CHART



1. PC MODE & COMPOSITE MODE

<< Dot Clock **(MHz),** Horizontal Frequency **(kHz)**, Vertical Frequency **(Hz)**, Horizontal etc... **(μs)**, Vertical etc... **(ms) >>**

Mode	H/V Sort	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Blanking time (B)	Sync Duration (D)	Back Porch (F)	Front Porch (C)	Resolution
1	H	+	25.175	31.469	800	640	160	96	56	8	**640 x 350**
	V	–		70.086Hz	449	350	99	2	66	31	
2	H	–	25.175	31.469	800	640	160	96	48	16	**640 x 480**
	V	–		59.940Hz	525	480	45	2	33	10	
3	H	–	30.240	31.500	900	720	180	72	90	18	**640 x 480 (MAC13")**
	V	–		66.667Hz	525	480	45	3	39	3	
4	H	–	28.350	31.500	900	720	180	72	90	18	**720 x 400 (TEXT)**
	V	+		70.156Hz	449	400	49	3	34	12	
5	H	+	40.000	37.879	1056	800	256	128	88	40	**800 x 600**
	V	+		60.317Hz	628	600	28	4	23	1	
6	H	–	57.290	49.731	1152	832	320	64	224	32	**832 x 624 (MAC16")**
	V	–		74.559Hz	667	624	43	3	37	3	
7	H	–	65.000	48.363	1344	1024	320	136	160	24	**1024x768**
	V	–		60.004Hz	806	768	38	6	29	3	
8	H	+	78.750	60.023	1312	1024	288	96	176	16	**1024x768**
	V	+		75.029Hz	800	768	32	3	28	1	
9	H	+	94.500	68.677	1376	1024	352	96	208	48	**1024x768**
	V	+		84.997Hz	808	768	40	3	36	1	
10	H	+	108.000	67.500	1600	1152	448	128	256	64	**1152x864**
	V	+		75.000Hz	900	864	36	3	32	1	
11	H	–	100.000	68.681	1456	1152	304	128	144	32	**1152x870 (MAC21")**
	V	–		75.062Hz	915	870	45	3	39	3	
12	H	+	108.000	60.000	1800	1280	520	112	312	96	**1280 x 960**
	V	+		60.000Hz	1000	960	40	3	36	1	
13	H	+	108.000	63.981	1688	1280	408	112	248	48	**1280x1024**
	V	+		60.020Hz	1066	1024	42	3	38	1	
14	H	–	161.000	74.537	2160	1600	560	168	280	112	**1600x1200**
	V	+		59.869Hz	1245	1200	45	4	38	3	
15	H	+	33.750	31.020	1088	848	240	112	112	16	**848x480**
	V	+		60.000Hz	517	480	37	8	23	6	

Mode	H/V Sort	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Blanking time (B)	Sync Duration (D)	Back Porch (F)	Front Porch (C)	Resolution
16	H	–	31.500	29.830	1056	848	208	80	104	24	**848x480**
	V	+		59.659Hz	500	480	20	5	12	3	
17	H	+	29.750	29.514	1008	848	160	32	80	48	**848x480**
	V	–		59.745Hz	494	480	14	5	6	3	
18	H	–	41.000	37.684	1088	848	240	80	120	40	**848x480**
	V	+		74.769Hz	504	480	24	5	16	3	
19	H	–	79.500	47.776	1664	1280	384	128	192	64	**1280x768**
	V	+		59.870Hz	798	768	30	7	20	3	
20	H	+	68.250	47.396	1440	1280	160	32	80	48	**1280x768**
	V	–		59.995Hz	790	768	22	7	12	3	
21	H		14.320	15.734	910	754	156	67	67	22	**753x483 (NTSC)**
	V			59.941Hz	262.5	245	20.5	3	13.5	4	
22	H		17.750	15.625	1136	923	213	84	103	26	**932x573 (PAL)**
	V			50.000Hz	312.5	287	25.5	2.5	20	3	
23	H	+	85.500	47.712	1792	1360	432	112	256	64	**1360x768**
	V	+		60.015Hz	795	768	27	6	15	3	
24	H	–	121.750	65.317	1864	1400	464	144	232	88	**1400x1050**
	V	+		59.978Hz	1089	1050	39	4	32	3	

2. COMPONENT MODE(Y, C_B/P_B, C_R/P_R)

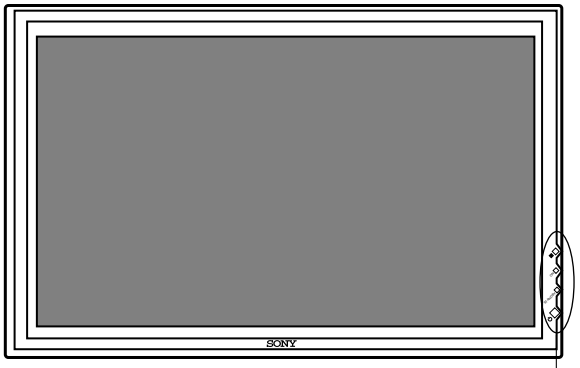
No.	Resolution	H-freq(KHz)	V-freq(Hz)	Pixel(MHz)	Proposed
31	1920 x 540	33.750	60.00	74.25	1080/60I
32	1920 x 540	28.125	50.00	74.25	1080/50I
33	1920 x 540	27.000	48.00	74.25	1080/48I
34	1280 x 720	45.000	60.00	74.00	720/60P
35	1440 x 483	31.469	59.94	54.00	480/60P
36	1872 x 575	31.250	50.00	72.00	575/50P

3. A/V COMPONENT INPUT

No.	Item	Min	Typ	Max	Unit	Remark
1	AV Video Input Level	0.85	1.00	1.15	Vpp	
2	AV Sync In Level	0.24	0.29	0.32	Vpp	
3	AV Burst In Level	0.14	0.28	0.35	Vpp	
4	AV Video In Level, L/R	0.47	0.63	0.79	V	
5	AV Audio In Level, L/R	0.47	0.63	0.79	V	
6	Component Video Input Level (Y, C_B/P_B, C_R/P_R)	0.6	0.7	0.8	Vpp	75 ohm (480p, 480i, 720p,1080i)
7	RGB/H/V Input Level	0.6	0.7	0.8	Vpp	75 ohm

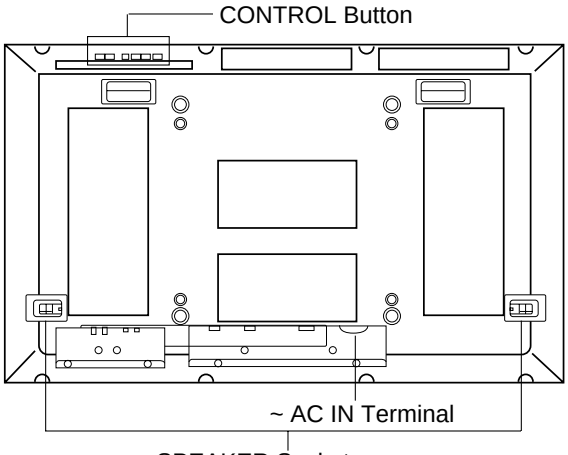
OPERATING INSTRUCTIONS

FRONT VIEW

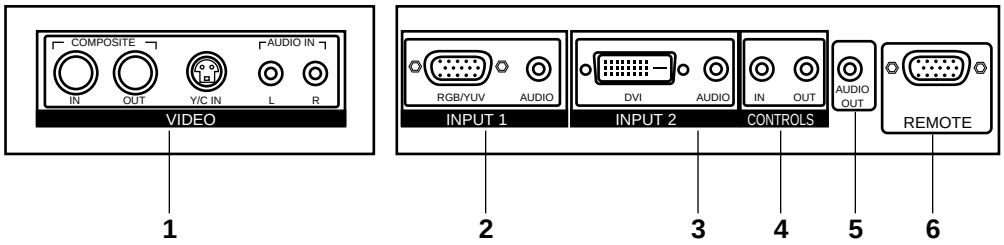


Front Control Panel

REAR VIEW



REAR VIEW



1. VIDEO Connertors

The PFM-42V1E is not equipped with VIDEO connectors. For the PFM-42V1E, composite video and Y/C input can be input when ad VIDEO input adaptor BKM-V10(not supplied)is installed in the display.

COMPOSITE IN(BNC): Connects to the composite video signal output of a piece of video equipment.

COMPOSITE OUT(BNC): Connects to the composite video signal input of a piece ofvideo equipment.

Y/C IN(Mini DIN 4-pin): Connects to the Y/C signal output of a piece of video equipment.

AUDIO IN L/R(RCA-jack): Inputs an audio signal. Connects to the audio output of a piece of video equipment.

2. INPUT1(ANALOG RGB/YUV IN) connectors

RGB/YUV(D-sub 15-pin): Connects to the analog RGB signal or component(YUV)signal output of a piece of video equipment.

Audio(Stereo mini-ack): Inputs an audio signal. Connects to the audio output of a piece of video equipment.

3. INPUT2(DVI-D) Connertors

DVI: Connects to the digital RGB signal output of a computer.

AUDIO(Streo minijack): Input an audio signal. Connects to the audio output of a computter.

Connect the supplied cable to the DVI connector.

4. CONTROL S IN/OUT(Control S Signal Input/out) Connertors(Mini-jack)

You can control multiple devices with a single remote commander when connected to the CONTROL S connector of a video device or other display. Connect the CONTROL S OUT connector on this display to the CONTROL S IN connector in this display to the CONTROL S OUT connector of the other device.

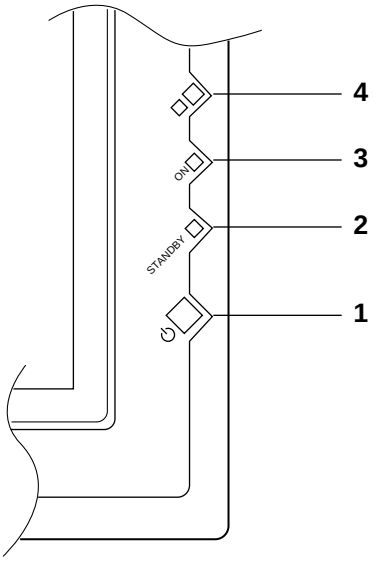
5. AUDIO OUT(Stereo mini-jack)

Outputs an audio of the signal currently indicated on the screen.

6. REMOTE Connector(D-sub 9-pin)

This connector allows remote control of the display using the REMOTE protocol. For details, contact your authorized Sony dealers.

Front Control Panel



1. ⏻ (standby)switch
Press to power on the display unit. Press again to return to the standby mode.

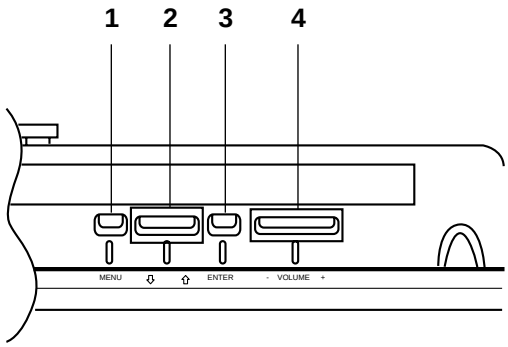
Note
To protect the panel, a certain amount of times is required to turn unit ON/STANDBY. Wait about 8seconds after one of these operations before pressing this switch again.

2. STANDBY inducator
Lights up in red in the standby mode.

3. ON inducator
Lights up in green when the diplay unit is powered on.

4. REMOTE Control detector
Receives the signals from Remote Commander.

Bottom Control Panel



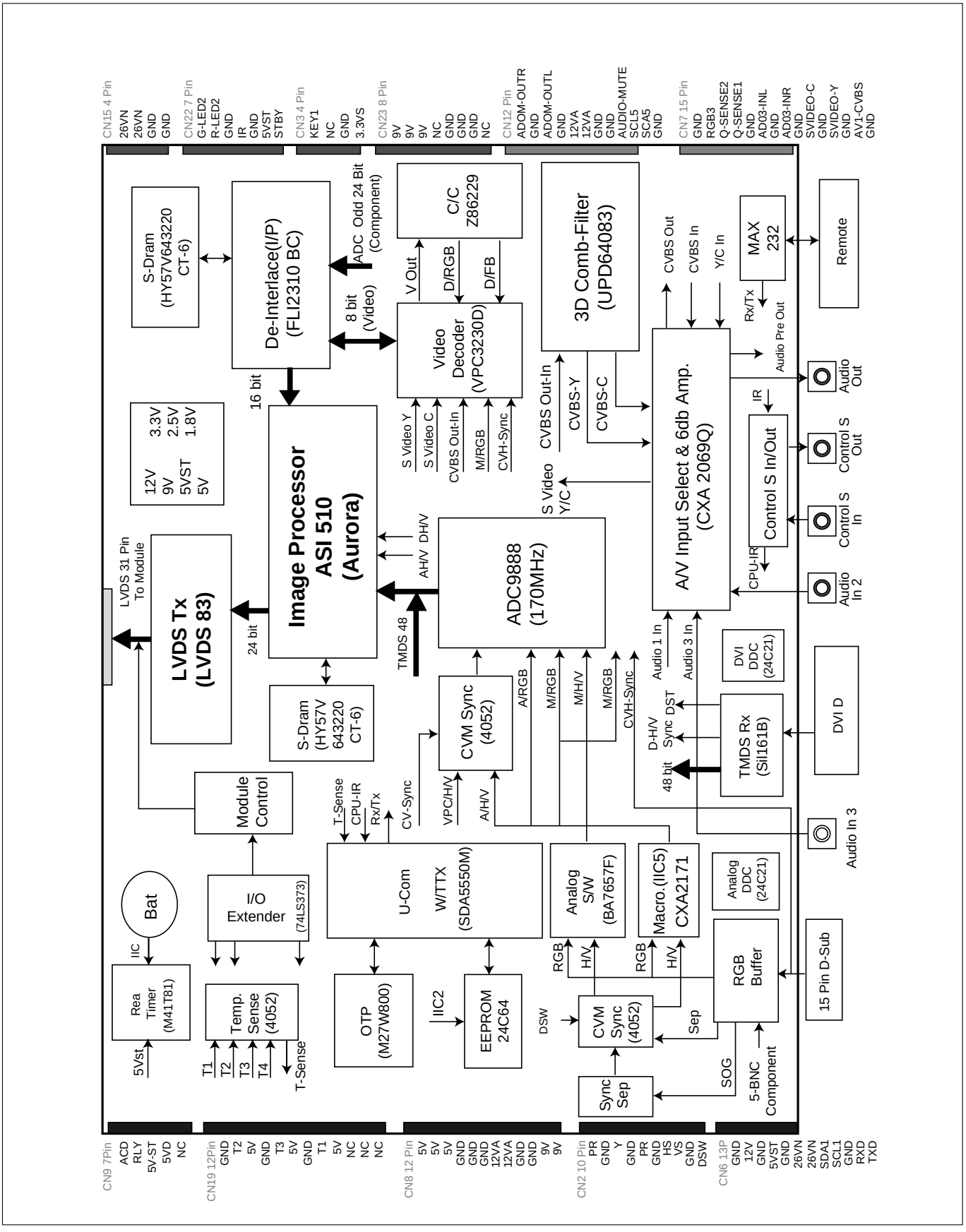
1. MENU button
Press to show menus. Press again to hide them.

2. ⇩/⇧ buttons
Press to move the cursor(yellow) to an item you want to select or to adjust a value in a menu.

3. ENTER button
Press to set your choice.

4. VOLUME +/- button
Press to adjust the speaker volume.

BLOCK DIAGRAM(MAIN)



DESCRIPTION OF BLOCK DIAGRAM

1. Input selection circuit

At BA7657F(IC4) Video signal selects between PC RGB signal and Component signal.
Then selected output inputs to AD9888(IC12).

2. A/D Converter

This block is composed of AD9888(IC12) and peripheral devices.
AD9888(IC12) includes A/D converter, Pre-amp, and PLL.
The basic RGB signal from D-sub RGB and Component signal Y/Pb/Pr are input to R,G,B pin of AD9888(IC12).
Input video signal is amplified, Phase locked , A/D converted to RGB/YUV each 8bits digital signal by this IC(IC12).
And send the Digital video signal to ASI510(IC14).
IC12 makes clock for ASI510(IC14).

3.TMDS Receiver

This Block is composed of SiI161B (IC17) and peripheral devices.
This ICs decodes TMDS Input signal from DVI-D Pin (CN5) and make 48bit digital signal to send Digital signal to ASI510(IC14).

4. Micom & DDC Controller part

This block is composed of SDA5550M(IC3) and OPT Memory(IC33),expanded I/O Expender IC(IC2, IC8,IC36) and EEPROM IC(IC1,IC34,IC49).
SDA5550M controls peripheral devices through IIC line.
Major functions are
(1) to store user setting value in the IC1.
And (2) to store EDID data in the EEPROM (IC34,IC49)

5. Video Decoder Circuit

This block is composed of VPC3230D(IC601) and peripheral devices
SDA5550M(IC3) controls this IC through IIC Line.
This IC analyzes input signal of CVBS, Y/C, Y/Pb/Pr and output analyzed signal (8bit interlace signal) to De-interlace block.
Analyzed signal has video control signals like Contrast, Brightness, Sharpness, Color, tint signals Including Adaptive Comb Filter.
Input CVBS from 3d Comb filer IC(IC31) is seperarated to Y and C. And passed by LPF(L501,L502).
Then inputed to Audio/Video switch(IC41).

6. DTV Circuit

This block is composed of AD9888(IC12) and peripheral devices
AD9888(IC12) includes A/D converter, Pre-amp, and PLL.
This circuit is controlled by SDA5550M(IC3) from IIC Line.
The function is that Component signal(Y/Pb/Pr) from Component(CN2,CN10) pass by control and output to ASI510.

7. Audio Decoder Circuit

This block is composed of TPA3002D2(IC10) and peripheral devices.
SDA5550M(IC3) controls this IC through IIC Line.
This IC analyzes Audio input signal through A/V Jack and PC1/2 audio, DVD/DTV audio.

8. De-Interlacer

This block is composed of FLI2310(IC10) and peripheral devices.
SDA5550M(IC3) controls this IC through IIC Line.
And this IC convert 8 Bit Interlace Y/UV signal to De-interlace signal.
It output converted signal to 16 Bit YUV signal

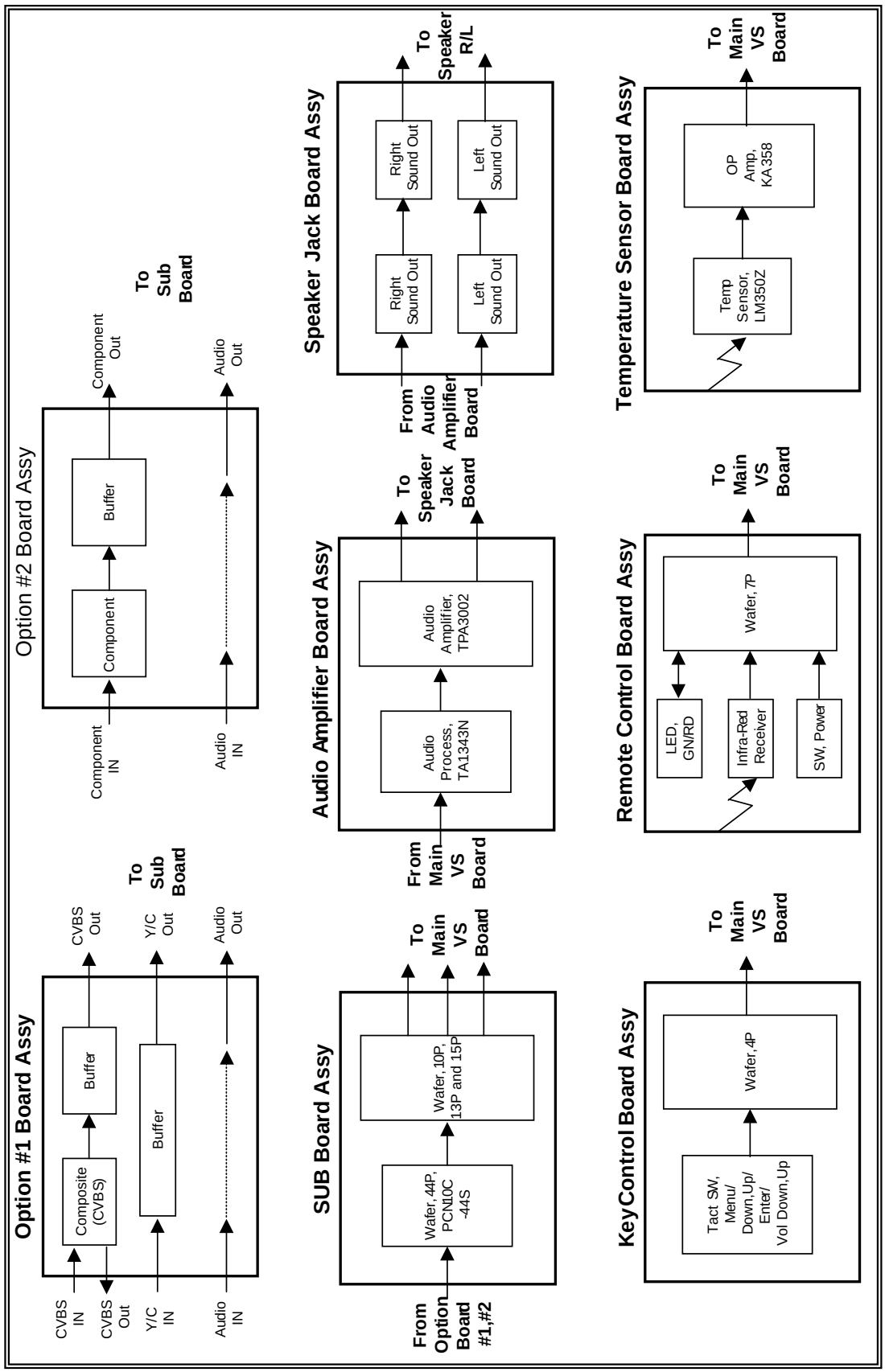
9. Panel-Link Circuit

LVDS Transmitter THC63LVDM83R(IC44) is the IC that receives output digital signal of ASI510(IC14) and output to PDP Module.
The signal format is LVDS.
PDP Module has LVDS receiver that is same output of ASI510(IC14).
This is the best for reduction EMI problem and the number of pin connector.

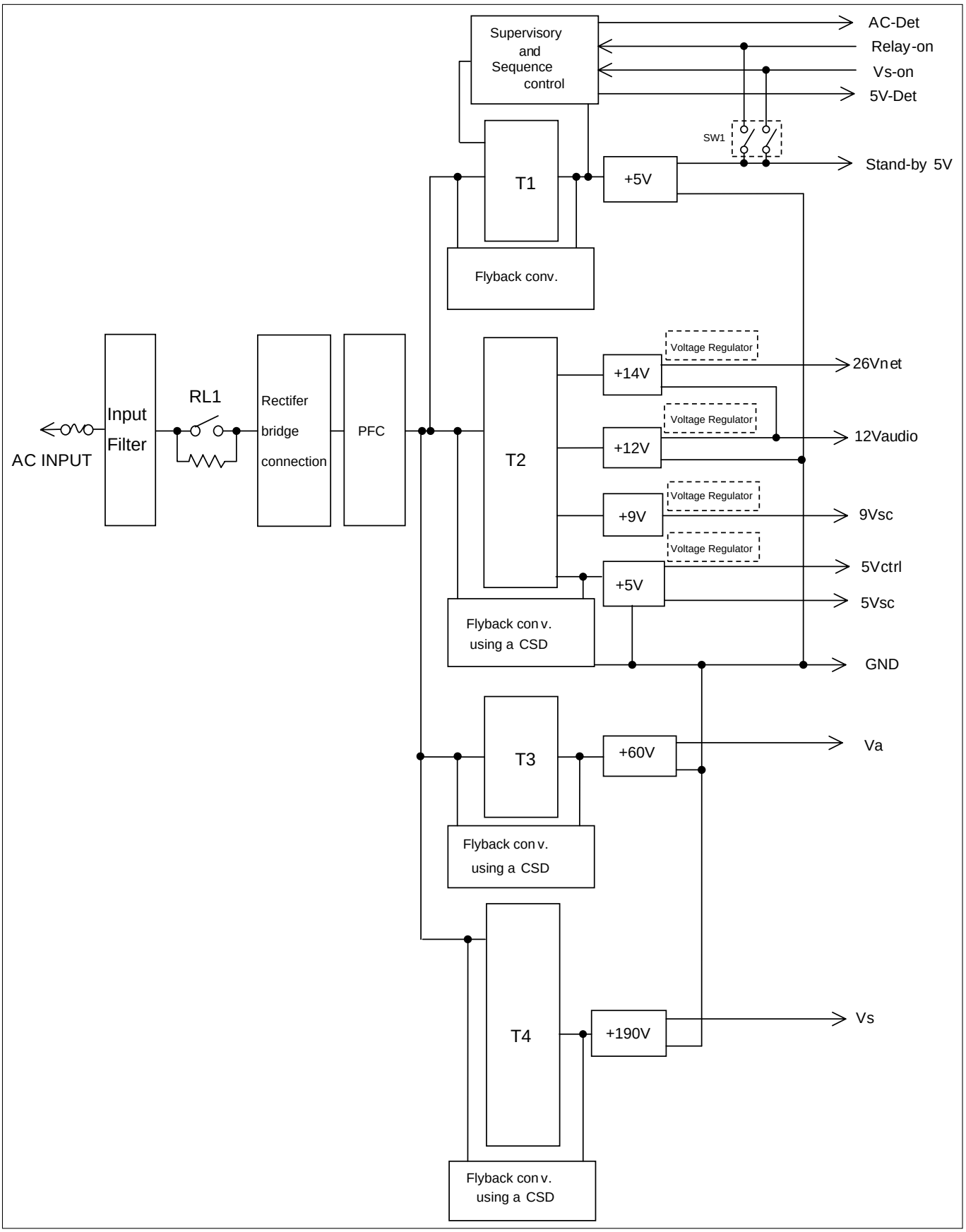
10. 3D Comb filter

In case of NTSC Composite VIDEO signal, Color and Y are separated by 3D Comb filter IC UPD64083 (IC31). Then inputted to Video decoder IC VPC3230D(IC601).

Block Diagram(Others)



Block Diagram(Power)



ADJUSTMENT

1. Procedures of how to go to service mode.

1) Enter the service mode of this unit by turning on the power while pressing and holding the "↓" key simultaneously.
2) Press "MENU" key----MAINTAIN.
3) Press "OK" key to enter the service menu.
4) Select the desired function.
5) Press the "MENU" key to exit OSD.
6) Turn off the power and then turn on it again. The monitor then enters the normal mode.
   To enter the service again, repeat the procedure described above.

Note

W/B readjustment is required after the panel, board and microcomputer are replaced. However, be sure to perform aging for more than 30 minutes for RGB reset before W/B adjustment.

2. Setup

1) Prepare timing and pattern data for a signal generator according to the Sony timing specifications.
2) Connect a monitor video cable to the signal generator.
3) Put Color Analyzer(ex. CA-110) 50cm away from the monitor, specify it vertically in the center of the display, and adjust the focus to the optimum level using an eyepiece.
4) Put the monitor and Color Analyzer(ex. CA-110) in a light-shielded room.
5) Set up [SERVICE MODE] of the monitor.

3. Operation

Data is manually set to improve the productivity. The brightness, contrast, and backlight are set to 50, 70 and 100 respectively. After that, the default data of the color temperature to be adjusted is set.

4. Warm up time

Warm up for 30 minutes before performing any adjustment.

5. Adjustment for White Balance

a. Display SMPTE at SXGA/60Hz(Input level 0.73V).
b. Set up [SERVICE MODE].
c. Click "INITIAL EEPROM" and again setup Service Mode.
d. Click "WHITE BALANCE"

6. 11000K color adjustment

a. Select "11000K" in "COLOR TEMP" and enter.
b. Use a 100%(100IRE) Full white video field in the primary mode.
c. Adjust "RGB GAIN " to secure the color temperature.
d. Press "MENU" key to exit adjust mode.

7. 9300K color adjustment

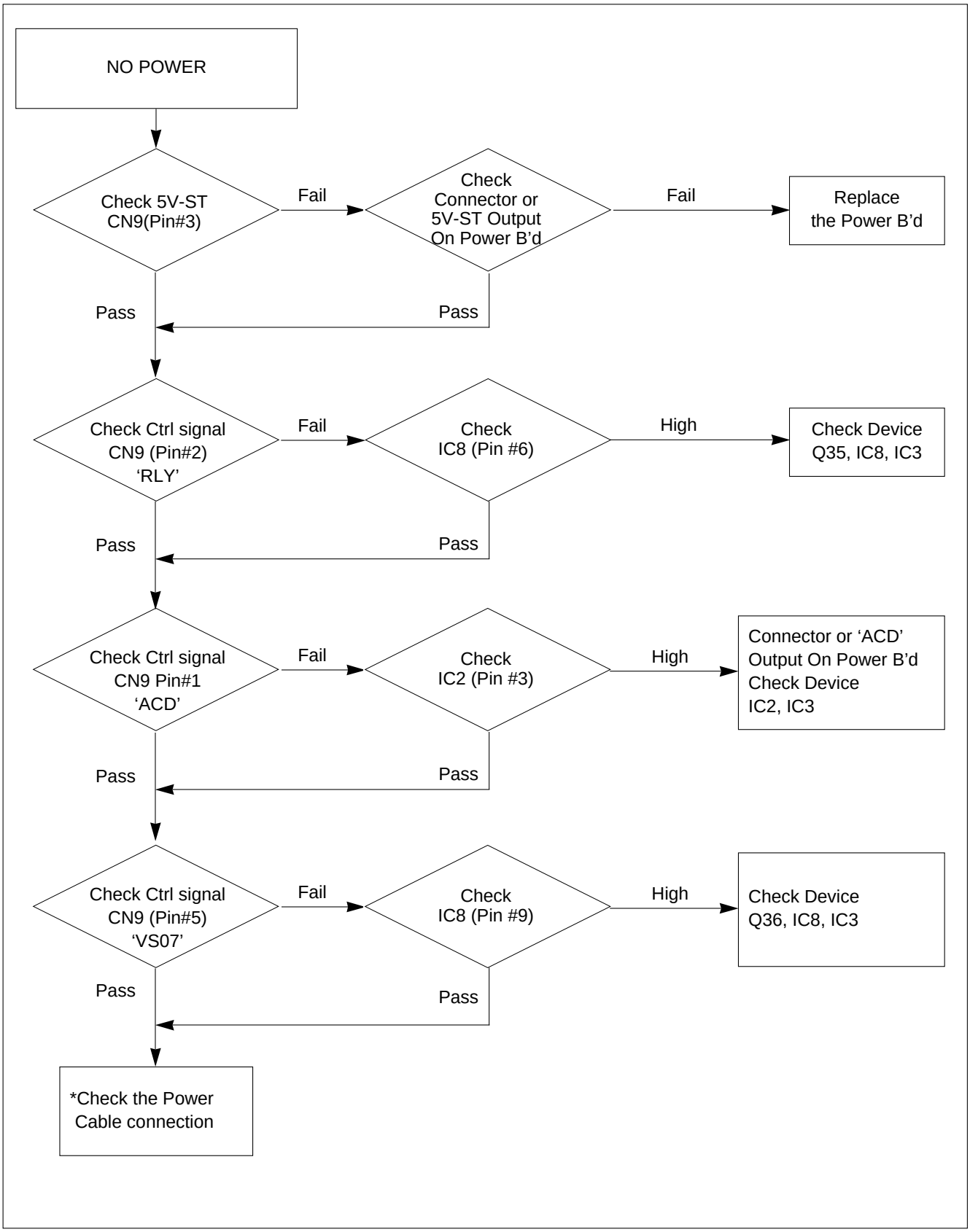
a. Select "9300K" in "COLOR TEMP" and enter.
b. Repeat the adjustment procedure as steps b to d at 11000K.

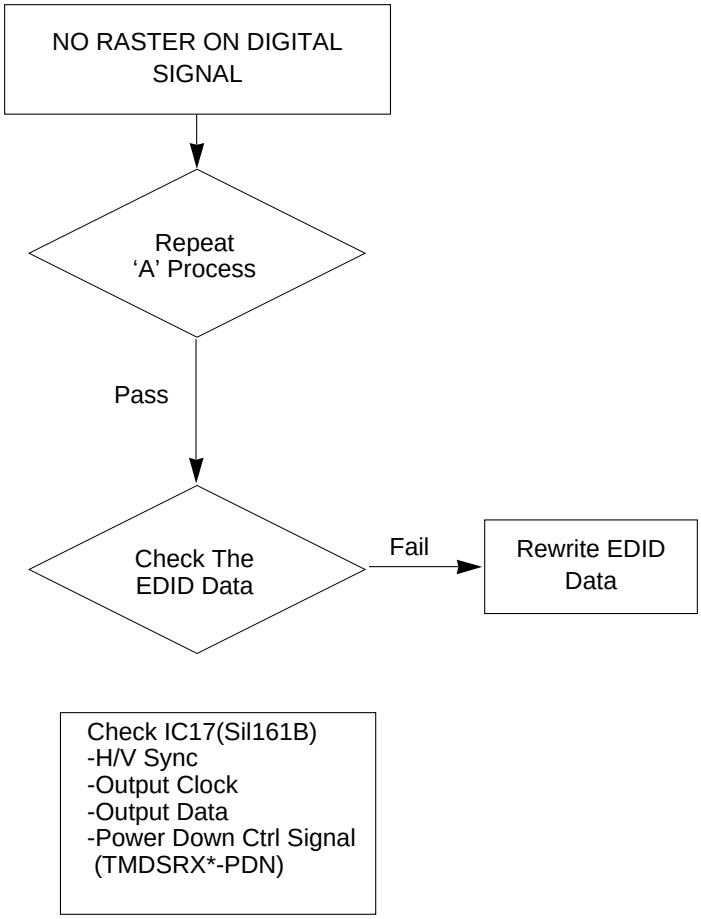
8. 6500K color adjustment

a. Select "6500K" in "COLOR TEMP" and enter.
b. Repeat the adjustment procedure as steps b to d at 11000K.

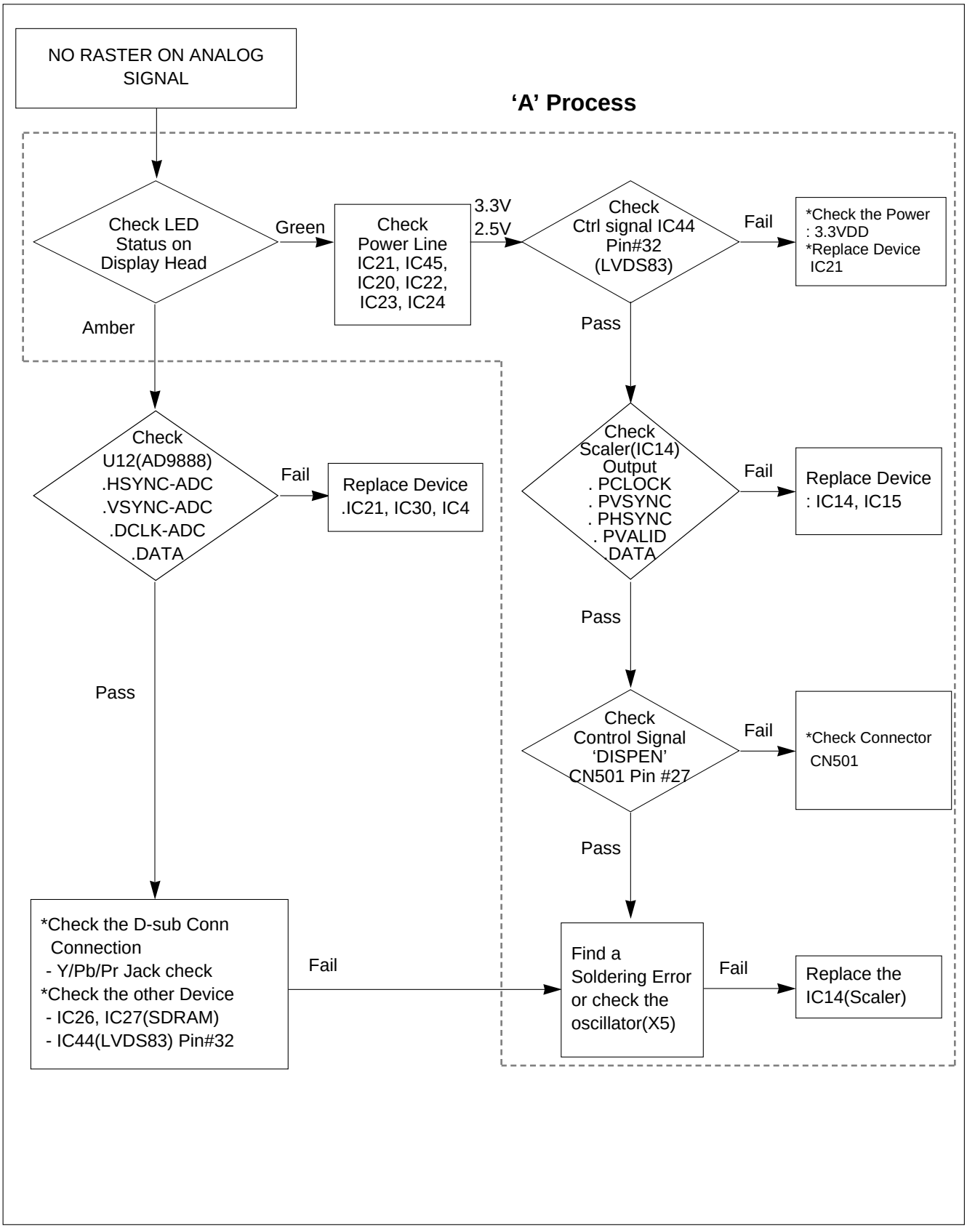
TROUBLESHOOTING GUIDE(MAIN)

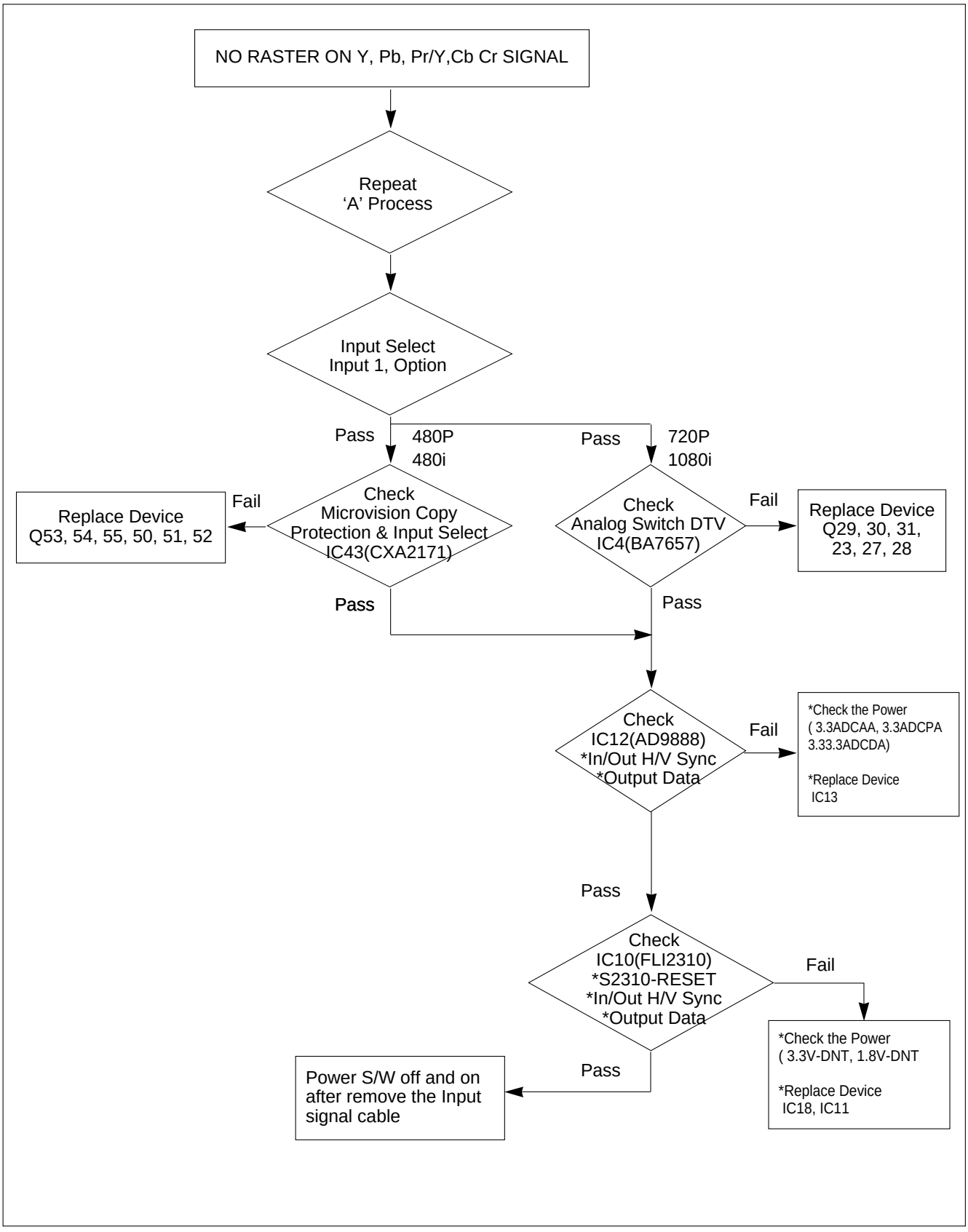
1. OUT OF ORDER ON POWER

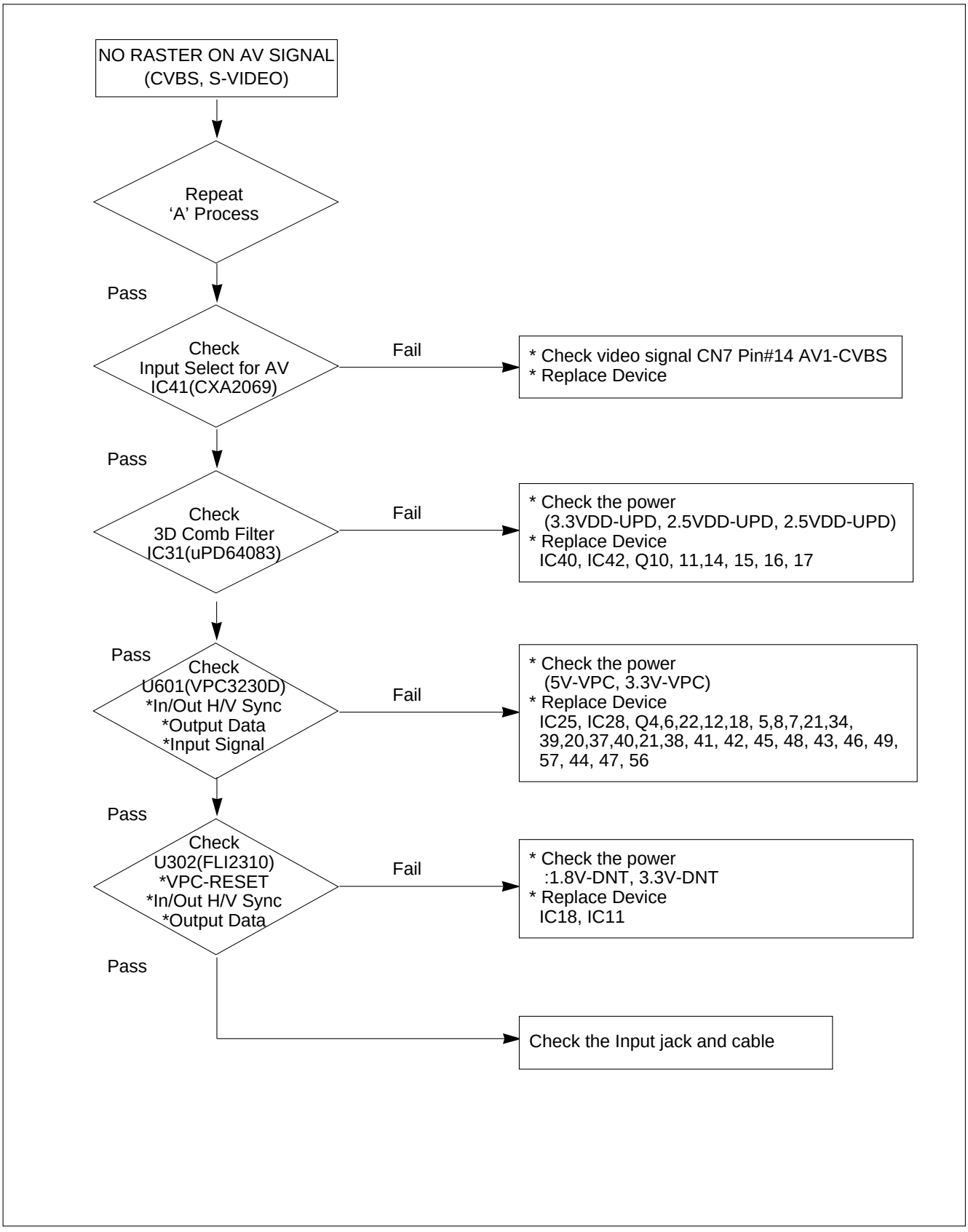


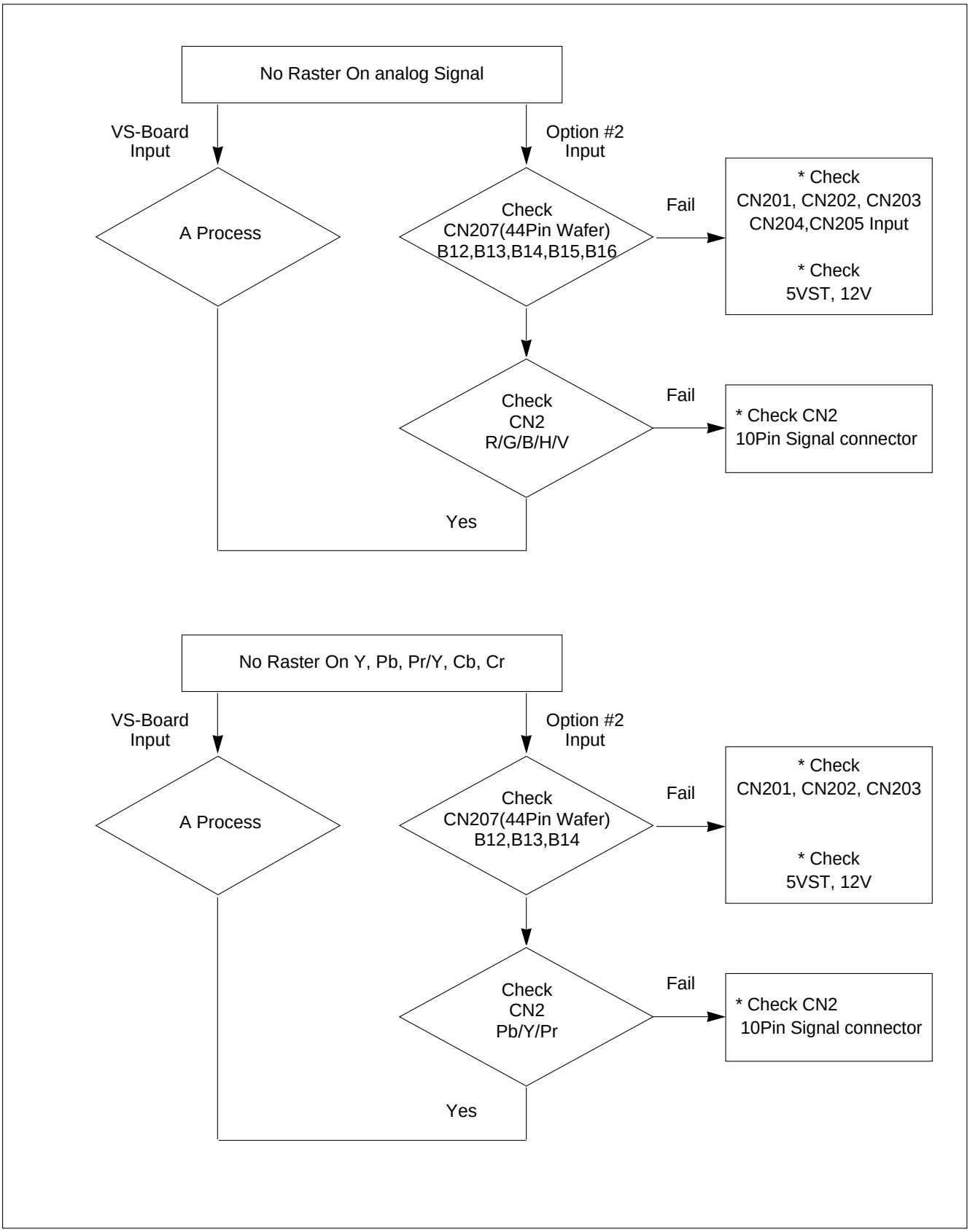

NO RASTER ON DIGITAL SIGNAL
Repeat 'A' Process
Pass
Check The EDID Data
Fail
Rewrite EDID Data
Check IC17(Sil161B)
-H/V Sync
-Output Clock
-Output Data
-Power Down Ctrl Signal (TMDSRX*-PDN)

2. NO RASTER STATE

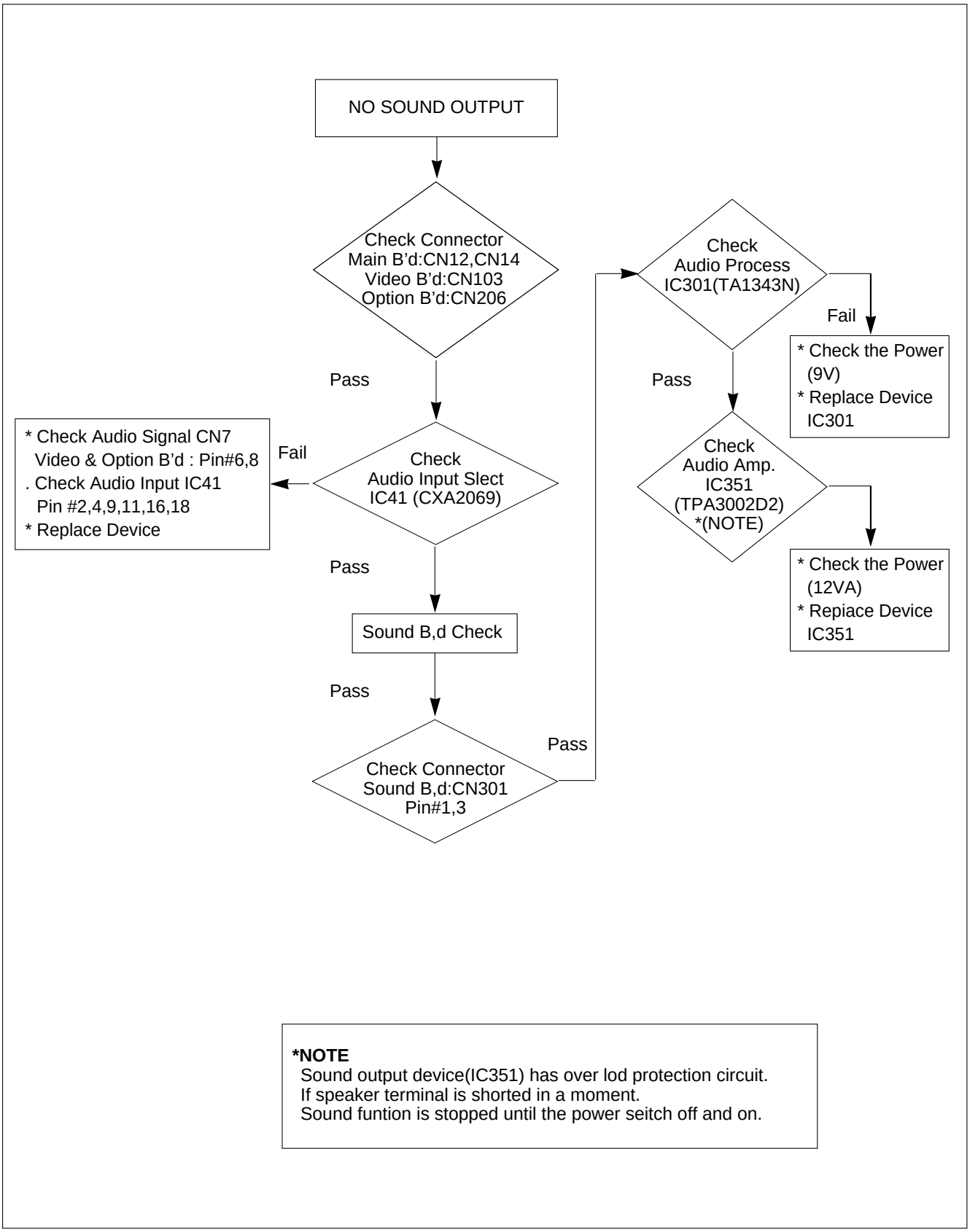



NO RASTER ON Y, Pb, Pr/Y,Cb Cr SIGNAL
Repeat
'A' Process
Input Select
Input 1, Option
Pass
480P
480i
Pass
720P
1080i
Check
Microvision Copy
Protection & Input Select
IC43(CXA2171)
Fail
Replace Device
Q53, 54, 55, 50, 51, 52
Check
Analog Switch DTV
IC4(BA7657)
Fail
Replace Device
Q29, 30, 31,
23, 27, 28
Pass
Pass
Check
IC12(AD9888)
*In/Out H/V Sync
*Output Data
Fail
*Check the Power
(3.3ADCAA, 3.3ADCPA
3.33.3ADCDA)
*Replace Device
IC13
Pass
Check
IC10(FLI2310)
*S2310-RESET
*In/Out H/V Sync
*Output Data
Fail
*Check the Power
(3.3V-DNT, 1.8V-DNT
*Replace Device
IC18, IC11
Pass
Power S/W off and on
after remove the Input
signal cable


NO RASTER ON AV SIGNAL
(CVBS, S-VIDEO)
Repeat
'A' Process
Pass
Check
Input Select for AV
IC41(CXA2069)
Fail
* Check video signal CN7 Pin#14 AV1-CVBS
* Replace Device
Pass
Check
3D Comb Filter
IC31(uPD64083)
Fail
* Check the power
(3.3VDD-UPD, 2.5VDD-UPD, 2.5VDD-UPD)
* Replace Device
IC40, IC42, Q10, 11,14, 15, 16, 17
Pass
Check
U601(VPC3230D)
*In/Out H/V Sync
*Output Data
*Input Signal
Fail
* Check the power
(5V-VPC, 3.3V-VPC)
* Replace Device
IC25, IC28, Q4,6,22,12,18, 5,8,7,21,34,
39,20,37,40,21,38, 41, 42, 45, 48, 43, 46, 49,
57, 44, 47, 56
Pass
Check
U302(FLI2310)
*VPC-RESET
*In/Out H/V Sync
*Output Data
Fail
* Check the power
:1.8V-DNT, 3.3V-DNT
* Replace Device
IC18, IC11
Pass
Check the Input jack and cable


No Raster On analog Signal
VS-Board Input
Option #2 Input
A Process
Check CN207(44Pin Wafer) B12,B13,B14,B15,B16
Fail
* Check CN201, CN202, CN203 CN204,CN205 Input
* Check 5VST, 12V
Check CN2 R/G/B/H/V
Fail
* Check CN2 10Pin Signal connector
Yes
No Raster On Y, Pb, Pr/Y, Cb, Cr
VS-Board Input
Option #2 Input
A Process
Check CN207(44Pin Wafer) B12,B13,B14
Fail
* Check CN201, CN202, CN203
* Check 5VST, 12V
Check CN2 Pb/Y/Pr
Fail
* Check CN2 10Pin Signal connector
Yes

3. SOUND TROUBLESHOOTING



***NOTE**
Sound output device(IC351) has over lod protection circuit.
If speaker terminal is shorted in a moment.
Sound funtion is stopped until the power seitch off and on.

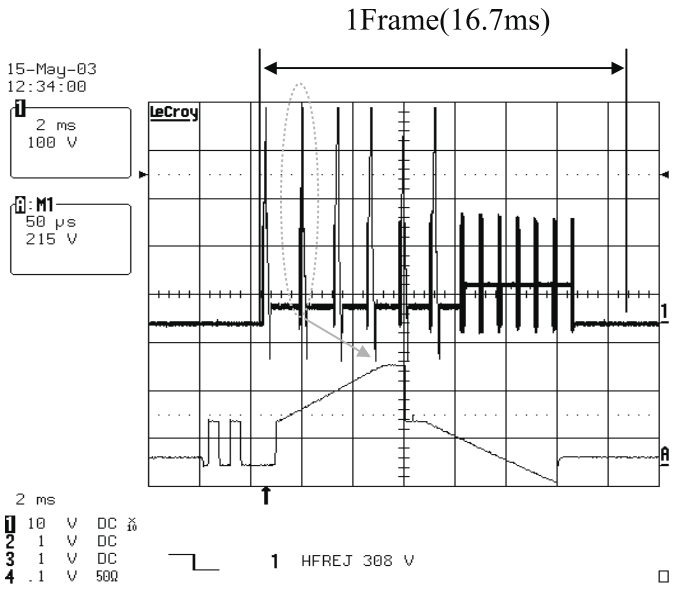
TROUBLESHOOTING GUIDE(PDP)

1. Checking for no Picture

A screen doesn't display at all and condition of black pattern or power off.

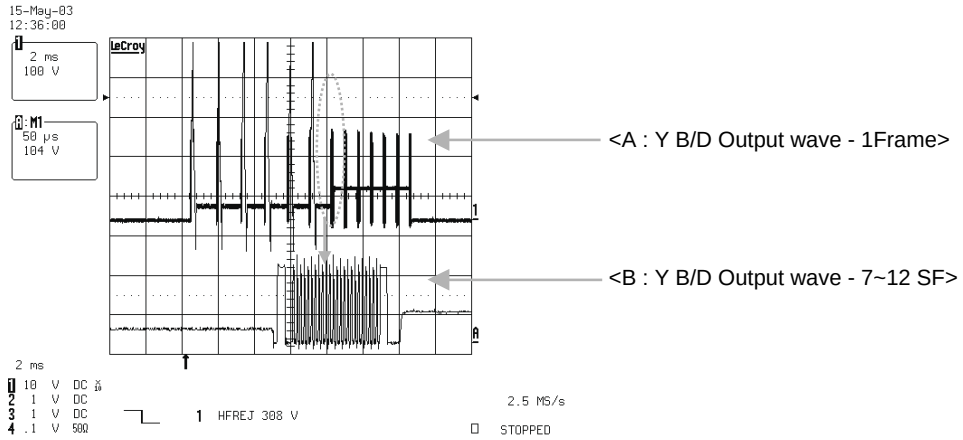
(1) Check whether the CTRL B/D LED(D1~D4) is turned on or not.
(2) Check the power and signal cable of CTRL B/D.
(3) X B/D, Y B/D, Z B/D is well plugged in.
(4) Check the connection of X B/D, Y B/D and Z B/D to CTRL B/D.
(5) Measure the output wave of X, Y, Z B/D with oscilloscope(more than 200MHz)
and find the trouble of B/D by comparing the output wave with below figure.
- Measure Point fo Y B/D : TP (Connector P4 80 pin)
- Measure Point fo Z B/D : Connection part of panel (SUS_OUT)
- Measure Point fo X B/D : L1(RIGHT), L2(LEFT BOTTOM)

(6) Check the SCAN(Y side) IC
(7) Check the DATA(X side) COF IC
(8) Replace the CTRL B/D.



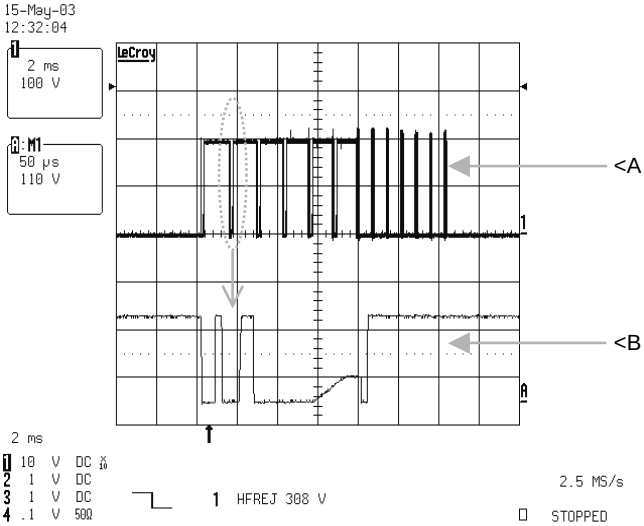
<A : Y B/D Output wave - 1FRAME>

<B : Y B/D Output wave - 1 SF>



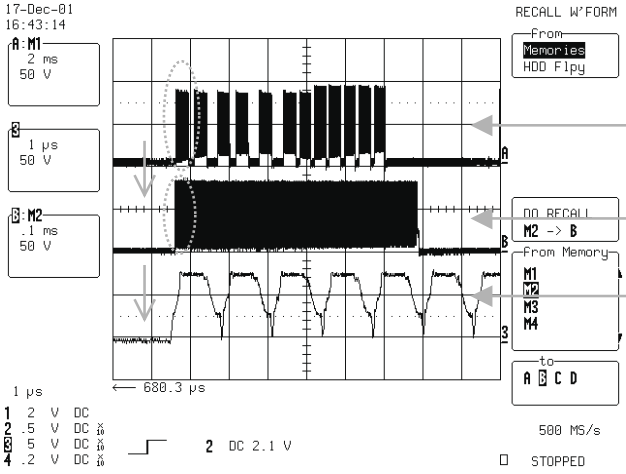
<A : Y B/D Output wave - 1Frame>

<B : Y B/D Output wave - 7~12 SF>



<A : Z B/D Output wave - 1Frame>

<B : Z B/D Output wave - 1SF>



<X B/D Output wave - 1 FRAME>

<X B/D Output wave - 1 SF>

<X B/D Output wave - Enlargement>

2. Hitch Diagnosis Following Display Condition

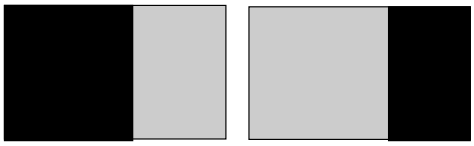
2-1. 4/7 or 3/7 of the screen doesn t be shown

(1) Confirm the power connector of X B/D is well plugged in which is correspond to not showing screen.
(2) Confirm the connector that is connected between CTRL B/D and X B/D correspond to not showing part.
(3) Replace relevant X B/D.

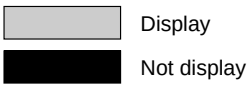
[Relationship between screen and X B/D

Screen			X B/D
Left of the Screen	4/7	<-->	Right X B/D
Right of the Screen	3/7	<-->	Left X B/D

[Screen Display Form



Left of the Screen(4/7) Right of the Screen(3/7)



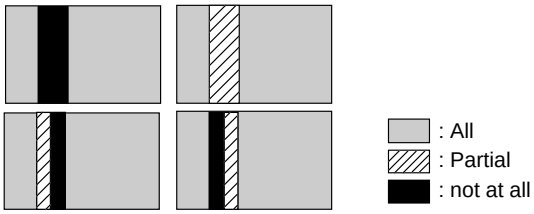
2-2. The screen doesn t be shown as Data COF

(Include not be shown part of Data COF quantity or a part)

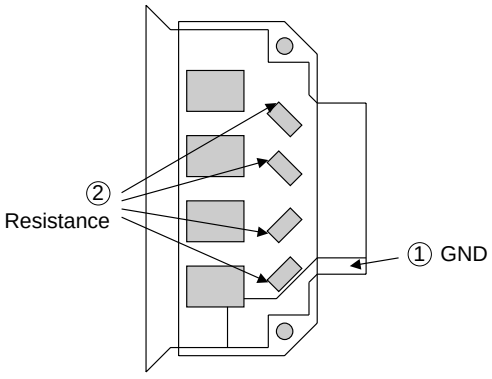
(1) The problem between Data COF and X B/D is more possible that the screen is not be shown as data COF.
(2) Confirm the connector of Data COF is well connected to X B/D. Correspond to the part that screen is not showing
(3) Confirm whether the Data COF is failed and replace X B/D

[Example of the screen display form

(Anything of the 7 Data COF can be shown beside below pictures)



[How to examine Data COF IC



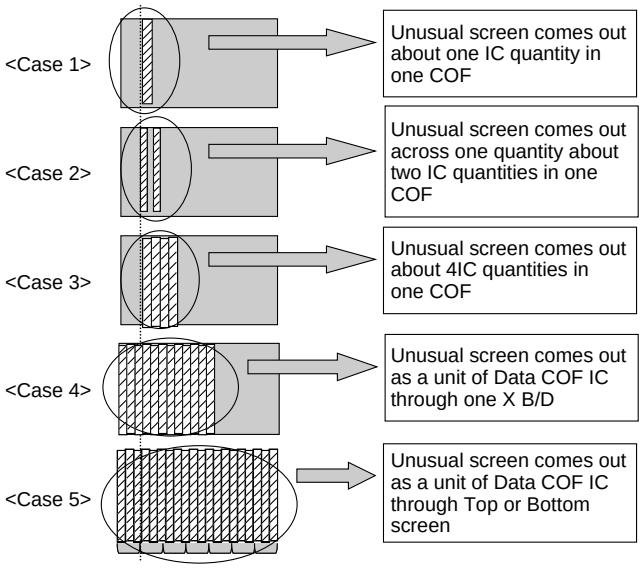
- ① ANODE Pattern (GND)
  ② CATHOD Pattern and examine the Diode to the pure or reverse direction.
- Measure the third resistance value

2-3. It Generates Unusual Pattern of Data COF IC unit

(1) In case of generating unusual pattern of Data COF IC unit as below picture, there is problem in the check that is input into Data COF IC
(2) In case of <case 1, 2, 3>
- confirm the connection of Data COF connector
- replace the relevant X B/D

(3) In case of <case 4, 5>
- confirm the connector that is connected from CTRL to X B/D
- Replace relevant XB/D or CTRL B/D

[Screen Display Form


<Case 1>
Unusual screen comes out about one IC quantity in one COF
<Case 2>
Unusual screen comes out across one quantity about two IC quantities in one COF
<Case 3>
Unusual screen comes out about 4IC quantities in one COF
<Case 4>
Unusual screen comes out as a unit of Data COF IC through one X B/D
<Case 5>
Unusual screen comes out as a unit of Data COF IC through Top or Bottom screen

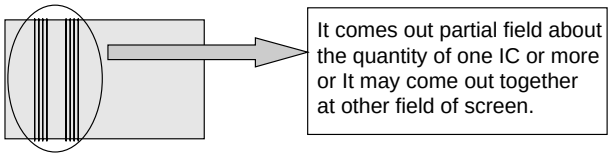
2-4. Regular Stripe is Generated about the Quantity of one Data COF IC or more

(1) In case of generating regular stripe about the quantity of one Data COF IC, there is problem at the output of output-flatworm of X B/D
In case of generating regular stripe about the quantity of two Data COF IC, that means the data which is conveyed from CTRL B/D doesn t conveyed well.
(2) Confirm the XB/D connection connector plugged in well. Correspond to unusual screen.
(3) Replace relevant XB/D or CTRL B/D.

[Relationship between screen and X B/D

Screen			X B/D
Left Bottom of the Screen	4/7	<-->	Right X B/D
Right Bottom of the Screen	3/7	<-->	Left X B/D

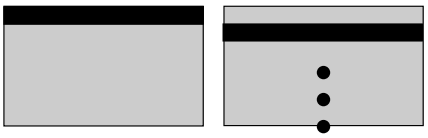
[Screen Display Form



2-5. The screen display has a problem for Scan FFC.

(1) It s may be a problem between Scan FFC and Y B/D.
(2) Check the connection of Y B/D and Scan COF.
(3) If the Scan IC is failed, replace the Y DRV B/D.

[Screen Display Form



The screen display is very good

The screen display is a poor

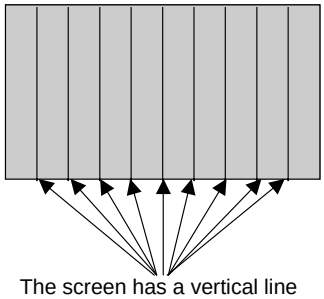
[Check a method of SCAN IC

Change the Vpp Pin into ANODE and GND Pin into CATHOD and then test the Diode with forward or reverse direction.

2-6. The screen has a vertical line with regular gap. (A vertical stripe flash at especial color)

(1) This is a problem about control B/D.
(2) Replace Control B/D.

[Screen Display Form



The screen has a vertical line
with regular gap

2-7. A data copy is happened into vertical direction

(1) In this case, it s due to incorrect marking of scan wave.
(2) Replace a Y DRV B/D or Y SUS B/D.

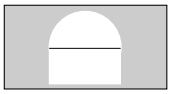
[Screen Display Form

<Display Pattern>

<Case 1 : Entire Copy>

<Case 2 : Top Copy>

<Case 3 : Bottom Copy>



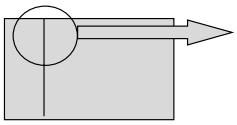
<Case 4 : Entire Copy>

2-8. The screen has one or several vertical line

(1) In this case, It isn t a problem about controller B/D or X B/D.
(2) It may cause followings.
- It s out of order a panel
- Open or short of DATA COF FPC attached panel
- It s out of order a DATA COF attached panel

(3) Replace Module.

[Screen Display Form



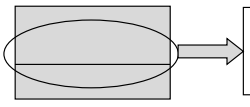
It may show several vertical lines in a quarter or other division part of screen including left case.

2- 9. The screen has one or several horizontal line

(1) In this case, it isn t a problem about controller B/D or X B/D.
(2) It may cause followings.
- It s out of order a panel
- Open or short of SCAN FPC attached panel
- It s out of order a SCAN IC attached panel

(3) Replace Y DRV B/D

[Screen Display Form



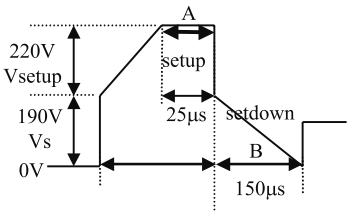
It may show several horizontal lines including left case.

2-10. The screen displays input signal pattern but the brightness is dark

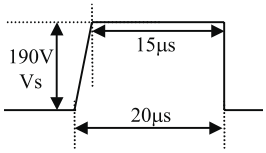
(1) In this case, Z B/D operation isn t complete.
(2) Check the power cord of Z B/D.
(3) Check the connector of Z B/D and Controller B/D.
(4) Replace the Controller B/D or Z B/D.

2-11. The screen displays other color partially on full white screen or happens discharge partially on full black screen.

(1) Check the declination of Y B/D set up, set down wave.
(2) Check the declination of Z B/D ˙ ramp wave.
(3) Measure each output wave with oscilloscope(more than 200MHz) and compare the data with below figure data.
Adjust the Y B/D set up(Test-up:B/C[¥s/¥s])/setdown(Test-down:D[¥s]) and Z B/D ramp(Tramp:F/G[¥s/¥s]) declination by changing VR1/VR2/VR3.
- Measuring Point of Y B/D : P4 (Connector P4 36 pin)
- Measuring Point of Z B/D : B37 (SUS_OUT)



Y Output Voltage Wavefrom



Z RAMP Voltage Wavefrom

2-12. A center of screen is darker than a edge of screen at full white pattern.

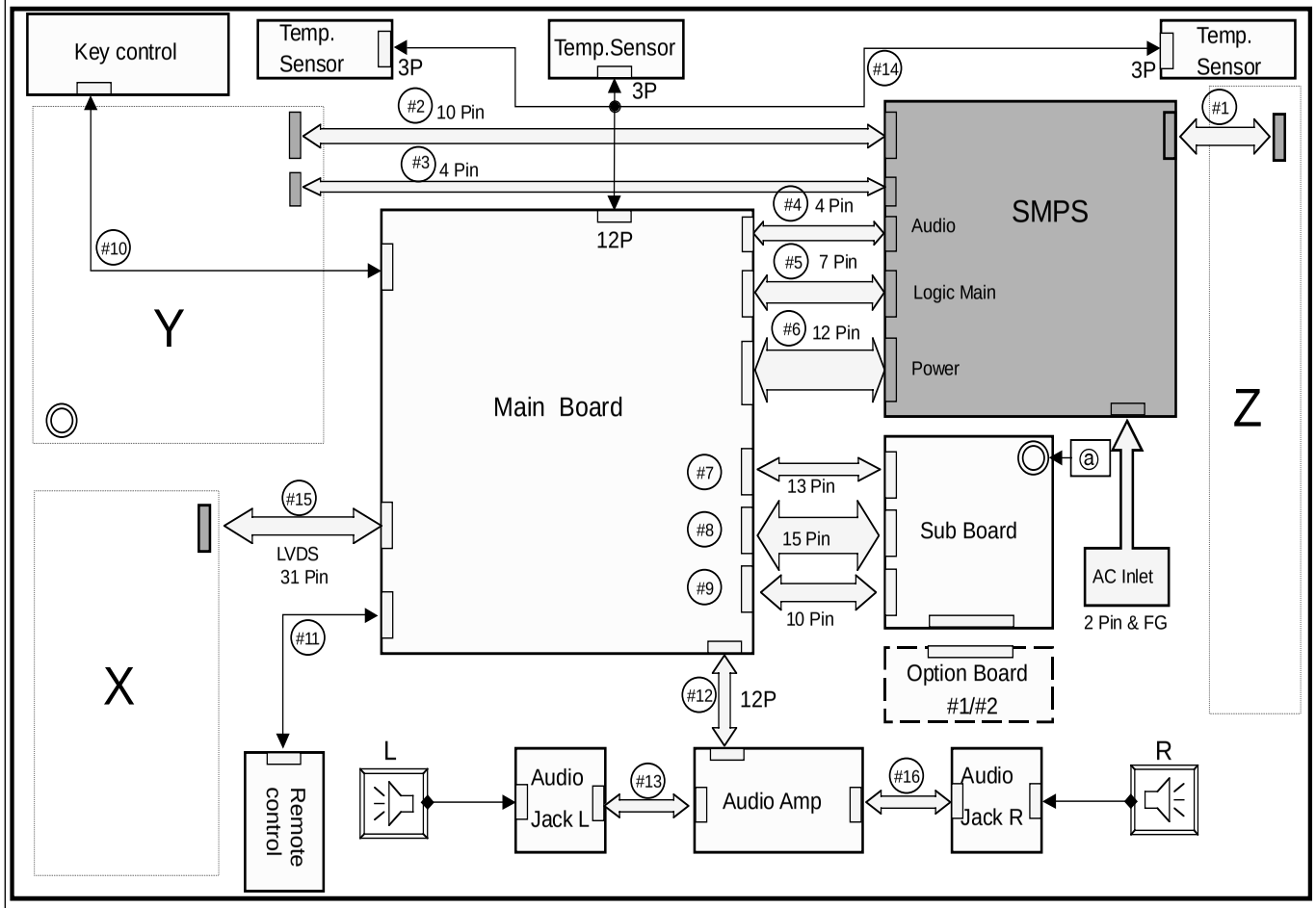
(1) In this case, it s a problem about Z B/D ramp wave.
(2) Check the connection cable of Z B/D and CTRL B/D.
(3) Replace the Z B/D.

[Screen Display Form

2-13. It doesn t display a specified brightness at specified color

(1) Check the connector of CTRL B/D input signal.
(2) Replace the CTRL B/D.

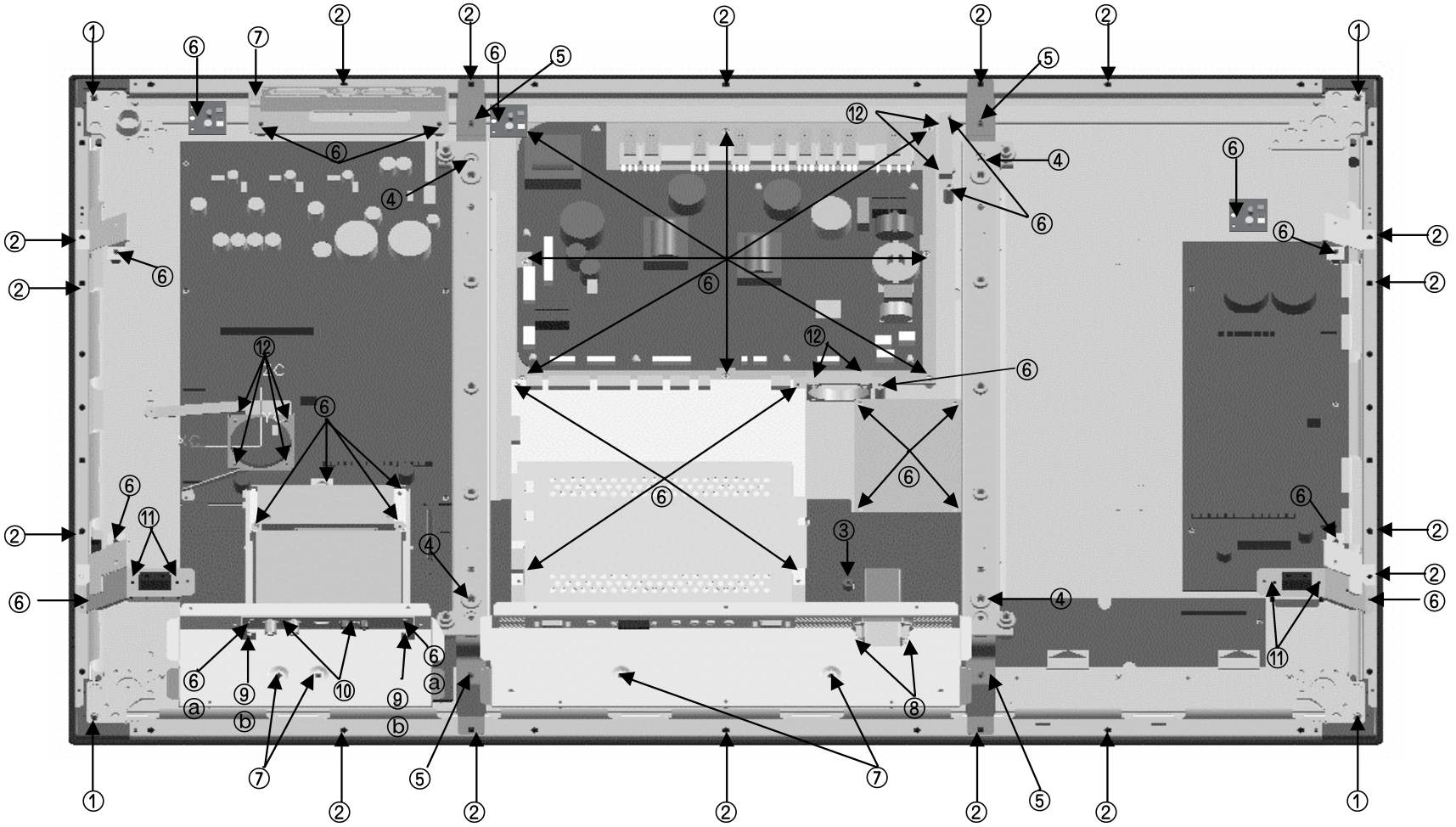
WIRING DIAGRAM



Wiring Part List

No.	SONY Part No.	LG Part No.
1	1-900-276-34	6631T39004A
2	1-900-280-74	6631T39004B
3	1-900-280-75	6631T39004C
4	1-900-280-76	6631T25018A
5	1-900-280-77	6631T25018B
6	1-900-280-78	6631T25018C
7	1-900-280-79	6631T20026A
8	1-900-280-80	6631T20026B
9	1-900-280-81	6631T20026C
10	1-900-280-82	6631T20026D
11	1-900-280-83	6631T10004A
12	1-900-280-84	6631T20026E
13	1-900-280-88	6631T25018E
14	1-900-280-86	6631T20026F
15	1-900-280-87	6631T11016L
16	1-900-280-85	6631T25018D

SCREW PART LIST(1)



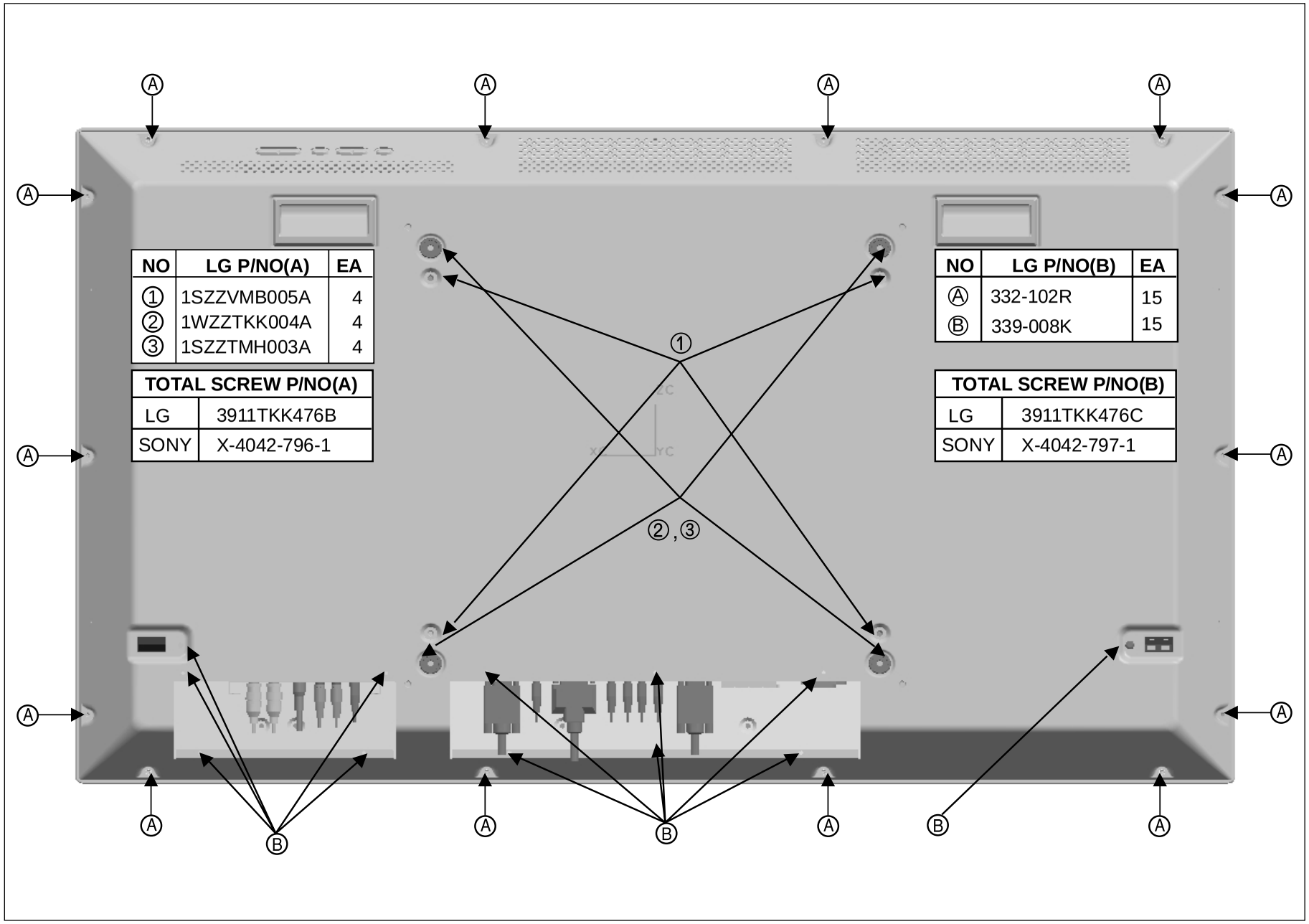
NO	LG P/NO	EA
①	1SZZTMP007C	5
②	332-102C	5
③	339-006B	5
④	339-009C	5
⑤	1SZZTMP007A	5

NO	LG P/NO	EA
⑥	339-008H	5
⑦	339-008K	5
⑧	339-008L	5
⑨	1SZZTMF012A	5
⑩	332-113E	5

NO	LG P/NO	EA
⑪	332-113D	5
⑫	339-008F	5
ⓐ	1NHB0302118	5
ⓑ	1WZZTKK005A	5

TOTAL SCREW P/NO	
LG	3911TKK476A
SONY	X-4042-795-1

SCREW PART LIST(2)



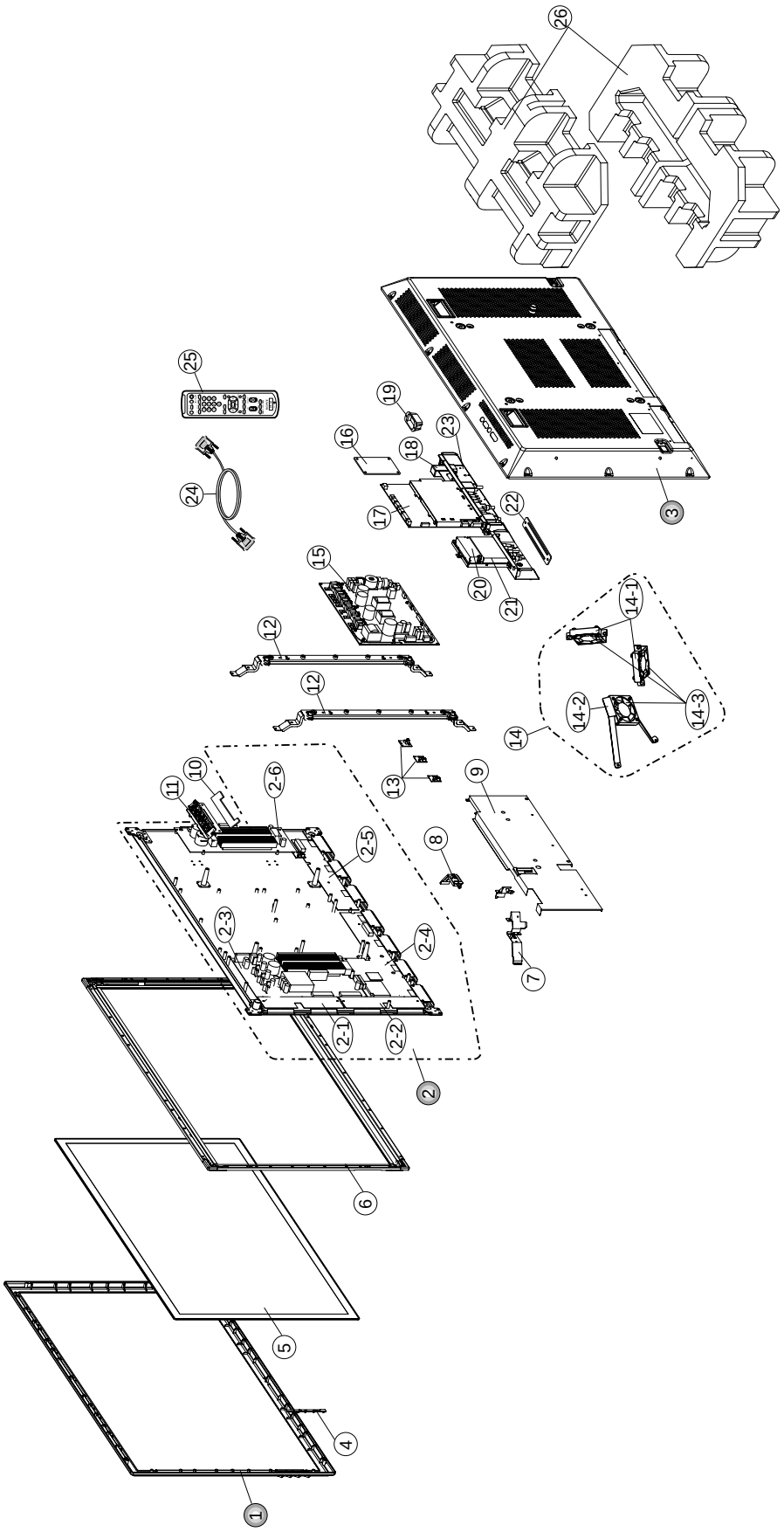
NO	LG P/NO(A)	EA
①	1SZZVMB005A	4
②	1WZZTKK004A	4
③	1SZZTMH003A	4

TOTAL SCREW P/NO(A)	
LG	3911TKK476B
SONY	X-4042-796-1

NO	LG P/NO(B)	EA
Ⓐ	332-102R	15
Ⓑ	339-008K	15

TOTAL SCREW P/NO(B)	
LG	3911TKK476C
SONY	X-4042-797-1

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	SONY Part No.	LG Part No.	Description
1	X-4042-306-1	3091TKE004A	CABINET ASSEMBLY, PS420VAO/PS420VAP SONY E003 ***(BK)*****-(PFM42V1)**
	X-4042-097-1	3091TKE004B	CABINET ASSEMBLY, PS420VA/PS420VAO/PS420VAA SONY E003 ***(SK)*** **-(PFM42V1, PFM-42V1E, PFM42V1A)**
2	1-805-424-11	6348Q-E036C	PDP, 42" 16:9 852*480 PDP42V50012.AKLGG(LVDS, FRAME FOR DID), FOR INTERCOMPANYY DOMESTIC**-(PFM42V1, PFM-42V1E)**
		6348Q-E036U	PDP, 42" 16:9 852*480 PDP42V50012.AKLGG**-(PFM42V1A)**
2-1		6871QDH051A	PWB(PCB) ASSEMBLY, DISPLAY YDRV ASSY HAND INSERT 42SD5_YDRV_TOTAL_T1_4LAYER
2-2		6871QDH052A	PWB(PCB) ASSEMBLY, DISPLAY YDRV ASSY HAND INSERT 42SD5_YDRV_BTM_T1_4LAYER
2-3		6871QYH027A	PWB(PCB) ASSEMBLY, DISPLAY, YSUB ASSY HAND INSERT 42SD5 _SEPERATED_YSUB
2-4		6871QCH032A	PWB(PCB) ASSEMBLY, DISPLAY, CTRL ASSY HAND INSERT 42V5 CTRL NEW MCM(1222) LVDS
2-5		6871QRH034A	PWB(PCB) ASSEMBLY, DISPLAY, XRRT ASSY HAND INSERT 42SD5_XR_SEPERATE(4LAYER)
2-6		6871QZH030A	PWB(PCB) ASSEMBLY, DISPLAY, ZSUB ASSY HAND INSERT 42SD5(YZ SEPARATE)
3	X-4042-803-1	4815TKK028A	SHIELD ASSEMBLY,REAR BACK SONY PS420VA***(BK)*** **-(PFM42V1)**
	X-4042-801-1	4815TKK028B	SHIELD ASSEMBLY, REAR BACK PS420VA***(L/GRAY)*** **-(PFM-42V1E, PFM42V1, PFM42V1A)**
4	1-761-813-11	6871TSH391C	PWB(PCB) ASSEMBLY, SUB, PS420VA LED & P/SW HAND SONY REMOTE CONTROL
5	4-097-589-01	5230TKK001A	FILTER(MECH), PDF-69J07H ASAHI PS420VA
6	X-4042-802-1	4951TKS107A	METAL ASSEMBLY, FRAME FRONT SONY PDP42"
7	1-761-817-11	6871TST413A	PWB(PCB) ASSEMBLY, SUB, PS420VA ETC TOTAL SONY L SPEAKER
8	1-761-817-21	6871TST413B	PWB(PCB) ASSEMBLY, SUB, PS420VA ETC TOTAL SONY R SPEAKER
9	4-101-213-01	4814TKK251A	SHIELD, TOP MODULE X-BOARD(PS420VA)
10	1-761-814-11	6871TSH390B	PWB(PCB) ASSEMBLY, SUB, PS420VA CONTROL HAND SONY KEY PAD
11	4-101-217-11	4940TKT178A	KNOB, TACT CONTROL PDP42" SONY BACK **-(PFM42V1)**
	4-101-217-01	4940TKT178B	KNOB, TACT CONTROL PS420VA BACK***(L/GRAY)*** **(PFM-42V1E, PFM42V1, PFM42V1A)**
12	X-4042-800-1	4951TKS108A	METAL ASSEMBLY, FRAME MODULE SONY PDP42"
13		6871TST412B	PWB(PCB) ASSEMBLY, SUB, PS420VA SUB TOTAL SONY TEMP. SENSOR
14	X-4042-799-1	4951TKS132A	METAL ASSEMBLY, FRAME FAN BRACKET(PS420VA)
14-1		4950TKS260A	METAL. FRAME FAN BRACKET,PS420VA
14-2		4950TKS262A	METAL. FRAME FAN BRACKET NEW(PS420VA)
14-3		5900T52001B	FAN, AD0512LB-G70,WITH FAN 3EA, PS420VA 52MM ADDA
15	1-761-810-11	6871TPT246A	PWB(PCB) ASSEMBLY, POWER, 42" PDP POWER TOTAL ORIGIN -
16	1-761-812-11	6871TSH411B	PWB(PCB) ASSEMBLY, SUB, PS420VA SOUND HAND SONY AUDIO AMP
17	1-761-811-11	6871TMT425B	PWB(PCB) ASSEMBLY, MAIN, PS420VA ALRDG SONY CL-50 TOTAL
18	1-417-398-11	6200TJB001Q	FILTER(CIRC), ID-N10BEH DONGIL BK PS420VA
19		4930TKK058A	HOLDER, AC INLET PS420VA(SONY PDP42")
20	1-761-815-11	6871TSH392B	PWB(PCB) ASSEMBLY, SUB, PS420VA SUB HAND SONY SUB
21	1-761-816-11	6871TKT290D	PWB(PCB) ASSEMBLY, INTERFACE, BKM10 INTERFACE TOTAL SONY #1 OPTION **-(PFM42V1, PFM42V1A)**
22		4950TKK659A	METAL PLATE COVER, OPTION PS420VA **-(Only PFM-42V1E)**
23		4950TKK598A	METAL, SHIELD COVER,MAIN INTERFACE PDP42"**-(PFM42V1)**
		4950TKK598B	METAL, SHIELD COVER,MAIN INTERFACE PS420VA ***(L/GRAY)*****-(PFM42V1, PFM42V1A, PFM-42V1E)**
24	1-827-782-11	6866TDV004P	CABLE,DVI, UL20276 AWG30 DT 3000MM BLACK(9930) PS420VA DM
25	1-477-278-13	6710T00005A	REMOTE CONTROLLER, PS420VA ALRDE REMOTO CONTROL
26	4-101-220-01	3920TKE233A	PACKING, PS420VA EPP TOP BOT PACKING
	4-101-218-01	3890TSE458A	BOX, PS420VA SONY(PDP42"-TOP CARTON)
	4-101-219-01	3890TSE459A	BOX, PS420VA SONY(PDP42"-BOTTOM CARTON)
	4-101-222-01	3918TKK048A	CARTON PLATE,(1152*364*710)SONY PDP CROSS VER.PAD
	4-101-223-01	3880TKZ017C	BAG.VINYL, PE(1000X1200)SONY PDP42" UNIT LAMI-BAG
	4-101-224-01	3890TSE463A	BOX, PS420 SONY ACCESSORY BOX FOR SONY
	1-825-627-21	3551TKS042A	COVER ASSEMBLY, PS420VA. SPEAKER,RIGHT**(DARK BLUE)**
	1-825-627-11	3551TKS042B	COVER ASSEMBLY, PS420VA. SPEAKER,LEFT**(DARK BLUE)**
	1-825-628-21	3551TKS042C	COVER ASSEMBLY, PS420VA. SPEAKER,RIGHT**(SILVER)**
	1-825-628-11	3551TKS042D	COVER ASSEMBLY, PS420VA. SPEAKER,LEFT**(SILVER)**

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.
* NOTE : **S** SAFETY Mark ⚠
AL ALTERNATIVE PARTS

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		MAIN BOARD		
		CAPACITORS		
		C1	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C2	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C4	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C5	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C6	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C7	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C8	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C9	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C10	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C11	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C12	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C13	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C14	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C15	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C16	DCH7106F621	10UF 16V M 3528MM TP(-)
		C17	DCH7106F621	10UF 16V M 3528MM TP(-)
		C18	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C19	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C20	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C21	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C22	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C23	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C24	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C25	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C26	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C27	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C28	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C29	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C30	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C31	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C32	0CZZTAT007L	RE3-16V221MF3#-T36 ELNA 16V
		C33	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C34	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C35	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C36	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C37	0CC561CK41A	560PF 1608 50V 5% NP0 R/TP
		C38	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C39	0CZZTAT007L	RE3-16V221MF3#-T36 ELNA 16V
		C40	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C41	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C42	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C43	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C44	0CC330CK41A	33PF 1608 50V 5% R/TP NP0
		C45	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C46	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C47	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C48	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		C49	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C50	DCH7106F621	10UF 16V M 3528MM TP(-)
		C51	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C52	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C53	0CC150CK41A	15PF 1608 50V 5% R/TP NP0

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C54	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C55	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C56	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C57	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C58	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C59	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C60	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C61	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C62	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C63	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C64	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C65	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C66	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C67	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C68	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C69	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C70	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C71	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C72	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C73	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C74	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C75	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C76	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C77	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C78	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C79	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C80	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C81	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C82	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C83	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C84	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C85	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C86	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C87	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C88	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C89	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C90	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C91	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C92	DCH7106F621	10UF 16V M 3528MM TP(-)
		C93	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C94	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C95	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C96	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C97	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C98	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C99	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C100	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C101	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C102	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C103	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C104	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C105	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C106	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C107	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C108	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C109	0CK392CK56A	3900PF 1608 50V 10% R/TP X7R
		C110	0CK393CK56A	39000PF 1608 50V 10% R/TP X7
		C111	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C112	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C113	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C114	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C115	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C116	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C117	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C118	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C119	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C120	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C121	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C122	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C123	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C124	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C125	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C126	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C127	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C128	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C129	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C130	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C131	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C132	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C133	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C134	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C135	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C136	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C137	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C138	DCH7106F621	10UF 16V M 3528MM TP(-)
		C139	DCH7106F621	10UF 16V M 3528MM TP(-)
		C140	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C141	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C142	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C143	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C144	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C145	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C146	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C147	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C148	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C149	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C150	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C151	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C152	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C153	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C154	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C155	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C156	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C157	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C158	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C159	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C160	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C161	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C162	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C163	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C164	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C165	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C166	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C167	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C168	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C169	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C170	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C171	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C172	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C173	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C174	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C175	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C176	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C177	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C178	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C179	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C180	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C181	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C182	0CZZTAT007D	RE3-35V331MH3#-T2 ELNA 35V 3
		C183	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C184	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C185	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C186	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C187	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C188	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C189	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C190	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C191	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C192	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C193	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C194	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C195	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C196	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C197	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C198	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C199	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C200	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C201	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C202	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C203	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C204	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C205	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C206	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C207	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C208	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C209	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C210	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C211	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C212	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C213	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C214	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C215	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C216	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C217	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C218	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C219	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C220	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C221	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C222	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C223	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C224	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C225	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C226	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C227	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C228	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C229	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C230	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C231	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y

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		C232	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C234	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C235	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C236	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C237	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C238	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C239	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C240	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C241	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C242	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C243	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C244	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C245	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C246	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C249	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C250	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C251	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C252	0CK473CK56A	47000PF 1608 50V 10% R/TP X7
		C253	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C254	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C255	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C257	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C258	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C259	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C260	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C261	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C262	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C263	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C264	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C265	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C266	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C267	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C268	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C269	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C270	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C272	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C273	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C274	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C275	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C276	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C277	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C279	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C280	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C281	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C282	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C283	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C284	0CZZTAT007L	RE3-16V221MF3#-T36 ELNA 16V
		C285	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C286	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C287	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C288	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C289	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C290	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C291	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C292	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7R
		C293	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7R
		C294	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7R
		C295	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y

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		C296	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C297	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C298	0CC151CK41A	150PF 1608 50V 5% NP0 R/TP
		C299	0CK683CK56A	0.068UF 1608 50V 10% X7R R/T
		C300	0CK682CK51A	6800PF 1608 50V 10% R/TP B(Y
		C301	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C302	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C303	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C304	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C305	0CC471CK41A	470PF 1608 50V 5% R/TP NP0
		C307	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C308	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C309	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C310	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C311	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C312	0CZZTAT009A	NC1C226M05005VR SAMWHA 16V 2
		C313	0CZZTAT009A	NC1C226M05005VR SAMWHA 16V 2
		C314	0CZZTAT009A	NC1C226M05005VR SAMWHA 16V 2
		C315	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C316	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C317	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C318	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C319	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C320	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C321	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C322	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C323	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C324	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C325	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C326	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C327	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C328	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C329	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C330	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C331	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C332	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C333	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C334	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C335	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C336	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C337	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C338	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C339	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C340	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C341	0CZZTAT009A	NC1C226M05005VR SAMWHA 16V 2
		C342	0CZZTAT009A	NC1C226M05005VR SAMWHA 16V 2
		C343	0CZZTAT009A	NC1C226M05005VR SAMWHA 16V 2
		C344	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C345	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C346	0CK222CK51A	2200PF 1608 50V 10% R/TP B(Y
		C347	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C348	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C349	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C350	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C351	0CC561CK41A	560PF 1608 50V 5% NP0 R/TP
		C352	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C353	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C354	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C355	0CC821CK41A	820PF 1608 50V 5% R/TP NP0
		C356	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C357	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C358	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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		C359	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C360	0CC470CK41A	47PF 1608 50V 5% R/TP NP0
		C361	0CC150CK41A	15PF 1608 50V 5% R/TP NP0
		C362	0CC150CK41A	15PF 1608 50V 5% R/TP NP0
		C363	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C364	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C365	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C366	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C367	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C368	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
		C369	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C370	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C371	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C372	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C373	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C374	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C375	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C376	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C380	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C384	0CZZTAT007L	RE3-16V221MF3#-T36 ELNA 16V
		C385	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C386	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C387	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C388	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C389	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C390	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C391	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C392	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C393	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C394	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C395	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C396	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C397	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C398	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C399	0CK474CH94A	“0.47UF 1608 25V 80%,-20% R/T”
		C400	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C401	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C402	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C403	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C404	0CZZTAT007L	RE3-16V221MF3#-T36 ELNA 16V
		C405	DCH7106F621	10UF 16V M 3528MM TP(-)
		C406	0CH3684K946	“0.68UF 50V 80%,-20% F(Y5V) 2”
		C407	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C408	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C409	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C410	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C411	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C412	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C413	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C414	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C415	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C416	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C417	0CC331CK41A	330PF 1608 50V 5% R/TP NP0
		C418	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C419	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C420	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C421	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C422	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C423	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C424	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C425	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C426	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4

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		C427	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C428	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C429	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C430	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C431	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C432	0CH3684K946	“0.68UF 50V 80%,-20% F(Y5V) 2”
		C433	0CH6101K416	100PF 50V J NP0 2012 R/TP
		C434	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
		C435	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C437	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C438	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C439	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C440	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C441	0CH3684K946	“0.68UF 50V 80%,-20% F(Y5V) 2”
		C442	0CH3684K946	“0.68UF 50V 80%,-20% F(Y5V) 2”
		C443	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C444	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C447	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C451	0CH6102K406	1000PF 50V J SL 2012 R/TP
		C452	0CH6100K116	10PF 50V D NP0 2012 R/TP
		C453	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C455	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C456	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C457	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C458	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C459	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C460	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C461	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C463	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C464	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C465	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C466	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C467	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C468	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C469	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C470	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C471	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C472	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C473	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C474	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C475	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C476	0CC121CK41A	120PF 1608 50V 5% R/TP NP0
		C477	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C478	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C479	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C480	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C481	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C482	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C483	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C484	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C485	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C486	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C487	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C488	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C489	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C490	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C491	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C492	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C493	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C494	0CH3474H946	“0.47UF 25V 80%,-20% F(Y5V) 2”
		C495	0CZZTAT006B	RV2-16V220MU-R ELNA 16V 22UF
		C496	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”

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		C497	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C500	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C501	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C502	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C503	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C504	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C505	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C506	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C507	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C508	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C509	0CZZTAT007L	RE3-16V221MF3#-T36 ELNA 16V
		C510	0CZZTAT007L	RE3-16V221MF3#-T36 ELNA 16V
		C511	0CH3105H946	“1UF 25V 80%,-20% F(Y5V) 2012”
		C512	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C513	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C514	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C515	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C516	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C517	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C518	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C519	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
		C520	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C601	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C602	0CZZTAT007M	RE3-16V471MG3#-T8 ELNA 16V 4
		C603	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C604	0CZZTAT007L	RE3-16V221MF3#-T36 ELNA 16V
		C606	0CK152CK51A	1500PF 1608 50V 10% R/TP B(Y
		C607	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7R
		C614	0CK152CK51A	1500PF 1608 50V 10% R/TP B(Y
		C616	0CK472CK51A	4700PF 1608 50V 10% R/TP B(Y
		C617	0CC391CK41A	390PF 1608 50V 5% NP0 R/TP
		C619	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C620	0CC020CK01A	2PF 1608 50V 0.25 PF R/TP NP
		C621	0CC020CK01A	2PF 1608 50V 0.25 PF R/TP NP
		C622	0CK152CK51A	1500PF 1608 50V 10% R/TP B(Y
		C628	0CK152CK51A	1500PF 1608 50V 10% R/TP B(Y
		C633	0CC391CK41A	390PF 1608 50V 5% NP0 R/TP
		C634	0CC391CK41A	390PF 1608 50V 5% NP0 R/TP
		C635	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C636	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C637	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7R
		C638	0CK224CF56A	0.22UF 1608 16V 10% R/TP X7R
		C639	0CK683CK56A	0.068UF 1608 50V 10% X7R R/T
		C640	0CK683CK56A	0.068UF 1608 50V 10% X7R R/T
		C641	0CK683CK56A	0.068UF 1608 50V 10% X7R R/T
		C642	0CK152CK51A	1500PF 1608 50V 10% R/TP B(Y
		C644	0CK472CK51A	4700PF 1608 50V 10% R/TP B(Y
		C645	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C650	0CK472CK51A	4700PF 1608 50V 10% R/TP B(Y
		C653	0CK472CK51A	4700PF 1608 50V 10% R/TP B(Y
		C806	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C810	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		DIODEs		
		D1	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT23
		D2	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D3	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D4	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D5	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D6	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D7	0DS226009AA	KDS226 TP KEC SOT-23 80V 30

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		D8	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D9	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D10	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D11	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D12	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D13	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D14	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT23
		D15	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D16	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D17	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D18	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D19	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D20	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D21	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D22	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D42	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT23
		D48	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT23
		D49	0DS301109AA	MMBD301LT1 TP MOTOROLA SOT23
		ZD1	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD2	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD3	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD4	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD5	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD6	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD7	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD8	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD9	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD10	0DZ120009CF	UDZ 12B TP ROHM-K SOD323 200
		ZD11	0DZ120009CF	UDZ 12B TP ROHM-K SOD323 200
		ZD12	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD13	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD14	0DZ120009CF	UDZ 12B TP ROHM-K SOD323 200
		ZD15	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD16	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD17	0DZ120009CF	UDZ 12B TP ROHM-K SOD323 200
		ZD18	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD20	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ICs		
		IC1	0IMMRAL034A	“AT24C64AN-10SI-2.7 ATMEL 8P,”
		IC2	0ISTLFA093A	“MM74HC373WMX FAIRCHILD 20P,S”
		IC3	0ISM555000A	SDA5550 MQFP100 BK MICOM TXT
		IC4	0IRH765700B	“BA7657F 24P,SOP TP INPUT SIG”
		IC5	0ISTLFA094A	“FSTD3306MTC FAIRCHILD 8P,TSS”
		IC6	0IKE702500B	KIA7025AF 3P SOT-89 TP RESE
		IC7	0IPRPSG023A	“M41T81 STM 8P,SOIC R/TP SERI”
		IC8	0ISTLFA093A	“MM74HC373WMX FAIRCHILD 20P,S”
		IC9	0ICTMZI001A	Z8622912SSC ZILOG 18PIN-SOIC
		IC10	0IMCRGN001B	FLI2310BC GENESIS 208P PQFP
		IC11	0IPMGFA003D	FAN1117AS-1.8 FAIRCHILD 4P S
		IC12	0IPRPAD011A	AD9888KS-205 ANALOG DEVICE 1
		IC13	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC14	0IPRPA9001A	“ASI510(42””PDP) AURORA BGA 31”
		IC15	0IPMGFA003D	FAN1117AS-1.8 FAIRCHILD 4P S
		IC16	0ISTLTI047A	SN74LV4052APWR TEXAS INSTRUM
		IC17	0IS5161000B	SIL161BCT100 SILICON IMAGE 1
		IC18	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC19	0IMX232162A	MAX232ACSE 16NARROW-SO RS232
		IC20	0IFA111733A	RC1117S-33 SOT-223 TP 1A 3.3
		IC21	0IFA111733A	RC1117S-33 SOT-223 TP 1A 3.3
		IC22	0IFA111733A	RC1117S-33 SOT-223 TP 1A 3.3

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC23	0IPMGFA003B	RC1117S-2.5 FAIRCHILD SOT-22
		IC24	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULAT
		IC25	0ISS780500H	“KA78M05-R 3P,D-PAK TP 5V 0.5”
		IC26	0IMMRHY033A	HY57V643220C(L)T-6 HYNIX 86P
		IC27	0IMMRHY033A	HY57V643220C(L)T-6 HYNIX 86P
		IC28	0IFA111733A	RC1117S-33 SOT-223 TP 1A 3.3
		IC29	0IMMRHY033A	HY57V643220C(L)T-6 HYNIX 86P
		IC30	0ISTLFA058A	“74F14SCX FAIRCHILD 14P,SOIC”
		IC31	0IMMRNE002A	UPD64083GF3BA NEC 100 QFP ST
		IC33	6620HJ4401A	CCSD-44T-SM WOOYOUNG 44PP
		IC33	0IZZTSZ283A	“ST 44P, PLCC, 8M OTP MEMORY”
		IC34	0ISS524202B	S524A40X21(SCT0) SAMSUNG ELE
		IC35	0ISS780500H	“KA78M05-R 3P,D-PAK TP 5V 0.5”
		IC36	0ISTLFA093A	“MM74HC373WMX FAIRCHILD 20P,S”
		IC37	0ISS780500H	“KA78M05-R 3P,D-PAK TP 5V 0.5”
		IC38	0ISTLTI047A	SN74LV4052APWR TEXAS INSTRUM
		IC39	0IPMGKE039A	“KIA78D09F KEC 3P,DPAK R/TP 9”
		IC40	0IPMGFA003B	RC1117S-2.5 FAIRCHILD SOT-22
		IC41	0ISO206900A	CXA2069Q QFP64 BK I2C BUS AV
		IC42	0IFA111733A	RC1117S-33 SOT-223 TP 1A 3.3
		IC43	0IPRPSO008A	“CXA2171AQ SONY 48P,QFP TRAY”
		IC44	0ITH638300B	“THC63LVDM83R THINE 56P,TSSOP”
		IC45	0IFA111733A	RC1117S-33 SOT-223 TP 1A 3.3
		IC46	0IPMGKE039A	“KIA78D09F KEC 3P,DPAK R/TP 9”
		IC49	0ISS524202B	S524A40X21(SCT0) SAMSUNG ELE
		IC53	0TFFC80009A	FAIRCHILD FDC6326L R/TP SOT-
		IC601	0IIT323000E	VPC3230D C5 80P QFP TRAY VID
		COIL & COREs		
		FB1	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB2	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB4	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB6	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB8	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB9	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB14	6210TCE001F	HB-1S2012-800JT CERATEC 2012
		FB15	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB16	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB17	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB18	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB19	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB20	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB24	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB25	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB26	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB27	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB28	6210TCE001B	HH-1H3216-500JT CERATEC 3216
		FB29	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB32	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB34	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB35	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB39	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB41	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB48	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB50	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB52	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB53	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB54	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB55	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB56	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB57	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP

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		FB58	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB59	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB65	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB72	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB73	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB74	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB75	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB76	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB79	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB80	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB81	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB82	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB83	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB84	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB85	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB90	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB91	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB92	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB93	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB94	6210TCE001Z	HH-1M2012-600JT CERATEC R/TP
		FB95	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB97	6210TCE001F	HB-1S2012-800JT CERATEC 2012
		FB98	6210TCE001F	HB-1S2012-800JT CERATEC 2012
		FB99	6210TCE001F	HB-1S2012-800JT CERATEC 2012
		FB100	6210TCE001F	HB-1S2012-800JT CERATEC 2012
		FB101	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB102	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB103	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB104	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB105	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB106	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB107	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB108	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB109	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB110	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB111	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB112	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB113	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB114	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB115	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB116	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB117	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB118	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB119	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB120	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB121	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB122	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB123	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB601	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		FB602	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1	6140TBZ016H	“- - DR10*7,0.5MM 22UH,L2320A”
		L2	6140TBZ016H	“- - DR10*7,0.5MM 22UH,L2320A”
		L3	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L4	6140TBZ016H	“- - DR10*7,0.5MM 22UH,L2320A”
		L5	6140TBZ016H	“- - DR10*7,0.5MM 22UH,L2320A”
		L7	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L10	6140TBZ016H	“- - DR10*7,0.5MM 22UH,L2320A”
		L11	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L12	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L13	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L22	0LC2000005E	“FI-C2012-822KJT,8.2UH CERATE”
		L36	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”

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		L38	0LC2000005F	F1-C2012-562-KJT CERATECH R/
		L42	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L43	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L44	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L45	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L46	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L51	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L60	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L61	0LC2000005D	“F1-B2012-332KJT,3.3 UH CERAT”
		L62	0LCTD00015A	“NL322522T-181J,180UH TDK R/T”
		L63	0LCTD00015A	“NL322522T-181J,180UH TDK R/T”
		L501	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		L502	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		L503	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		L504	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		L505	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		L506	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		L507	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		L508	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
		L509	6200J00011A	H354LAI-K5202 TOKO R/TP BAND
	TRANSISTOR			
		Q1	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q2	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q3	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q4	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q5	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q6	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q7	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q8	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q9	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q10	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q11	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q12	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q13	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q14	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q15	0TR387500AA	CHIP 2SC3875S(ALY) KEC
		Q16	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q17	0TR387500AA	CHIP 2SC3875S(ALY) KEC
		Q18	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q19	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q20	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q21	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q22	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q23	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q24	0TR144009AH	DTC144EK CHIP TP ROHM - -
		Q25	0TR387500AA	CHIP 2SC3875S(ALY) KEC
		Q26	0TR144009AI	DTA144EK CHIP TP ROHM - -
		Q27	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q28	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q29	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q30	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q31	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q32	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q33	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q34	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q35	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q36	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q37	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q38	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q39	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q40	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q41	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q42	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q43	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q44	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q45	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q46	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q47	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q48	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q49	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q50	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q51	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q52	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q53	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q54	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q55	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q56	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q57	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q58	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q59	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q62	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q63	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q102	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
	RESISTORs			
		R1	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R2	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R3	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R4	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R5	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R6	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R7	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R8	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R9	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R12	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R13	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R14	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R15	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R16	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R17	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R18	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R19	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R20	0RH4702D622	47K 1/10W 5 D.R/TP
		R21	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R22	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R24	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R23	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R25	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R26	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R27	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R28	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R29	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R30	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R31	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R32	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R33	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R34	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R35	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R36	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R37	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R38	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R39	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R40	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R41	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R42	0RH1000D622	100 1/10W 5 D.R/TP
		R43	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R44	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R45	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R46	0RH1000D622	100 1/10W 5 D.R/TP
		R47	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R48	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R49	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R50	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R51	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R52	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R53	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R54	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R55	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R56	0RH1000D622	100 1/10W 5 D.R/TP
		R57	0RH1000D622	100 1/10W 5 D.R/TP
		R58	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R59	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R60	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R61	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R62	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R63	0RH1000D622	100 1/10W 5 D.R/TP
		R64	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R65	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R66	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R67	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R68	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R69	0RJ1004D677	1000000 OHM 1/10 W 5% 1608 R
		R70	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R71	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R72	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R73	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R74	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R75	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R76	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R77	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R78	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R79	0RH1002D422	10000 OHM 1 / 10 W 1% D R/TP
		R80	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R81	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R82	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R83	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R84	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R85	0RH1000D622	100 1/10W 5 D.R/TP
		R89	0RH1000D622	100 1/10W 5 D.R/TP
		R90	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R91	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R92	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		R93	0RJ1211D477	1.21K OHM 1/10 W 1% 1608 R/T
		R95	0RJ3900D677	390 OHM 1/10 W 5% 1608 R/TP
		R96	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R97	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R98	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R100	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R101	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R102	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R103	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R104	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R105	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R106	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R107	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R108	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R109	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R110	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R111	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R112	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R113	0RH1002D422	10000 OHM 1 / 10 W 1% D R/TP
		R114	0RH1000D622	100 1/10W 5 D.R/TP
		R115	0RH0000D622	0 1/10W P-TYPE TAPPING
		R116	0RH0000D622	0 1/10W P-TYPE TAPPING
		R117	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R118	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R119	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R120	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R122	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R123	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R124	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R125	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R126	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R127	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R128	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R129	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R130	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R131	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R132	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R133	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R134	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R135	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R136	0RJ7501D677	7.5K OHM 1/10 W 5% 1608 R/TP
		R137	0RJ7501D677	7.5K OHM 1/10 W 5% 1608 R/TP
		R138	0RJ7501D677	7.5K OHM 1/10 W 5% 1608 R/TP
		R139	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R140	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R141	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R142	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R143	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R144	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R145	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R146	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R147	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R148	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R151	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R152	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R153	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R154	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R155	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R156	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R157	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R158	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R159	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R163	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R164	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R165	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R166	0RJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R167	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R168	0RH4702D622	47K 1/10W 5 D.R/TP
		R169	0RH4702D622	47K 1/10W 5 D.R/TP
		R174	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R175	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R176	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R177	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R178	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R179	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R180	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R181	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R182	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R183	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R184	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R185	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R186	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R187	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R188	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R189	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R190	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R191	0RJ3302D677	33K OHM 1/10 W 5% 1608 R/TP
		R192	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R193	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R194	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R195	0RJ2002D677	20000 OHM 1/10 W 5% 1608 R/T
		R196	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R197	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R198	0RH1002D422	10000 OHM 1 / 10 W 1% D R/TP
		R199	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R200	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R202	0RH1000D622	100 1/10W 5 D.R/TP
		R204	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R205	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R206	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R207	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R208	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R209	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R210	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R211	0RH0000D622	0 1/10W P-TYPE TAPPING
		R213	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R215	0RJ3600D477	360 OHM 1/10 W 1% 1608 R/TP
		R216	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R217	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R218	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R222	0RJ1202D677	12K OHM 1/10 W 5% 1608 R/TP
		R223	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R224	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R225	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R226	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R227	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R228	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R229	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R230	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R231	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R232	0RH0752D622	75 1/10W 5 D.R/TP
		R234	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R235	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R236	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R237	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R238	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R240	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		R241	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		R242	0RH1000D622	100 1/10W 5 D.R/TP
		R243	0RH1000D622	100 1/10W 5 D.R/TP
		R244	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R245	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R246	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R248	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R251	0RH4702D622	47K 1/10W 5 D.R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R252	0RH4700D622	470 1/10W 5 D.R/TP
		R253	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R254	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R255	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R256	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R257	0RH1002D422	10000 OHM 1 / 10 W 1% D R/TP
		R258	0RH0000D622	0 1/10W P-TYPE TAPPING
		R259	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R260	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R261	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R262	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R263	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R264	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R265	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R266	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R267	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R268	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R269	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R270	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R271	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R272	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R273	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R274	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R275	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R276	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R277	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R278	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R279	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R280	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R282	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R283	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R284	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R285	0RJ4703D677	470K OHM 1/10 W 5% 1608 R/TP
		R288	0RH0752D622	75 1/10W 5 D.R/TP
		R289	0RH0752D622	75 1/10W 5 D.R/TP
		R290	0RH0752D622	75 1/10W 5 D.R/TP
		R291	0RH5600D622	560 1/10W 5 D.R/TP
		R292	0RH5600D622	560 1/10W 5 D.R/TP
		R293	0RH5600D622	560 1/10W 5 D.R/TP
		R294	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R295	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R296	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R297	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R298	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R299	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R300	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R301	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R302	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R303	0RJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R304	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R305	0RH7501D622	7.5K 1/10W 5 D.R/TP
		R306	0RH7501D622	7.5K 1/10W 5 D.R/TP
		R307	0RH7501D622	7.5K 1/10W 5 D.R/TP
		R308	0RH7501D622	7.5K 1/10W 5 D.R/TP
		R309	0RH7501D622	7.5K 1/10W 5 D.R/TP
		R310	0RH7501D622	7.5K 1/10W 5 D.R/TP
		R311	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R312	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R313	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R314	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R315	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R316	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R317	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		R318	0RH5600D622	560 1/10W 5 D.R/TP
		R319	0RH5600D622	560 1/10W 5 D.R/TP
		R320	0RH5600D622	560 1/10W 5 D.R/TP
		R321	0RH0752D622	75 1/10W 5 D.R/TP
		R322	0RH0752D622	75 1/10W 5 D.R/TP
		R323	0RH0752D622	75 1/10W 5 D.R/TP
		R324	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R325	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R326	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R327	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R328	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R329	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R330	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R331	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R333	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R334	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R335	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R336	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R337	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R338	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R339	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R340	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R341	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R342	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R343	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R344	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R345	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R346	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R347	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R348	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R349	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R350	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R351	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R354	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R355	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R358	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R359	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R361	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R362	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R363	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R364	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R365	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R368	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R373	0RJ2400D677	240 OHM 1/10 W 5% 1608 R/TP
		R374	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R375	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R376	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R377	0RJ5601D477	5.6K OHM 1/10 W 1% 1608 R/TP
		R378	0RJ5601D477	5.6K OHM 1/10 W 1% 1608 R/TP
		R379	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R380	0RH1000D622	100 1/10W 5 D.R/TP
		R381	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R383	0RH1000D622	100 1/10W 5 D.R/TP
		R384	0RH1000D622	100 1/10W 5 D.R/TP
		R385	0RJ7501D677	7.5K OHM 1/10 W 5% 1608 R/TP
		R386	0RJ7501D677	7.5K OHM 1/10 W 5% 1608 R/TP
		R387	0RJ7501D677	7.5K OHM 1/10 W 5% 1608 R/TP
		R388	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R389	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R390	0RJ6801D677	6800 OHM 1/10 W 5% 1608 R/TP
		R391	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R392	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R393	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R394	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R395	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R396	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R397	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R398	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R399	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R400	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R401	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R402	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R403	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R404	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R405	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R406	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R407	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R408	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R409	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R410	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R415	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R416	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R417	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R418	0RJ2203D677	220K OHM 1/10 W 5% 1608 R/TP
		R419	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R420	0RJ1002D477	10K OHM 1/10 W 1% 1608 R/TP
		R421	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R422	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R423	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R424	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R425	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R426	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R427	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R428	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R429	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R430	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R431	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R432	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R433	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R434	0RJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R435	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R436	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R437	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R438	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R439	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R440	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R441	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R442	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R443	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R444	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R445	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R447	0RH0752D622	75 1/10W 5 D.R/TP
		R448	0RH0752D622	75 1/10W 5 D.R/TP
		R449	0RH0752D622	75 1/10W 5 D.R/TP
		R450	0RH0752D622	75 1/10W 5 D.R/TP
		R451	0RJ3303D677	330K OHM 1/10 W 5% 1608 R/TP
		R453	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R454	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R463	0RH1000D622	100 1/10W 5 D.R/TP
		R464	0RH1000D622	100 1/10W 5 D.R/TP
		R465	0RH0000D622	0 1/10W P-TYPE TAPPING
		R466	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		R468	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R469	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R470	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R471	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R472	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R473	0RH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R477	0RH1000D622	100 1/10W 5 D.R/TP
		R478	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R479	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R480	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R481	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R487	0RH0000D622	0 1/10W P-TYPE TAPPING
		R488	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R489	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R490	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R491	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R492	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R493	0RJ2201D677	2200 OHM 1/10 W 5% 1608 R/TP
		R494	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R495	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R496	0RJ5601D477	5.6K OHM 1/10 W 1% 1608 R/TP
		R497	0RJ5601D477	5.6K OHM 1/10 W 1% 1608 R/TP
		R498	0RJ5601D477	5.6K OHM 1/10 W 1% 1608 R/TP
		R499	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R500	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R501	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R502	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R503	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R504	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R505	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R506	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R507	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R508	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R509	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R510	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R511	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R512	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R513	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R514	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R515	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R516	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R517	0RJ5601D477	5.6K OHM 1/10 W 1% 1608 R/TP
		R518	0RJ5601D477	5.6K OHM 1/10 W 1% 1608 R/TP
		R519	0RJ5601D477	5.6K OHM 1/10 W 1% 1608 R/TP
		R520	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R521	0RJ3300D677	330 OHM 1/10 W 5% 1608 R/TP
		R522	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R523	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R524	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R530	0RJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R531	0RJ5600D677	560 OHM 1/10 W 5% 1608 R/TP
		R532	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R533	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R535	0RH0000D622	0 1/10W P-TYPE TAPPING
		R536	0RH0000D622	0 1/10W P-TYPE TAPPING
		R537	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R538	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R539	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R544	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R545	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R546	0RJ6800D677	680 OHM 1/10 W 5% 1608 R/TP
		R547	0RJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R549	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R555	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R556	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R557	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R562	0RH0000D622	0 1/10W P-TYPE TAPPING
		R563	0RH0000D622	0 1/10W P-TYPE TAPPING
		R564	0RH0000D622	0 1/10W P-TYPE TAPPING
		R565	0RH0000D622	0 1/10W P-TYPE TAPPING
		R566	0RH0000D622	0 1/10W P-TYPE TAPPING
		R567	0RH0000D622	0 1/10W P-TYPE TAPPING
		R601	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R602	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R603	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R617	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R634	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		RA1	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA2	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA3	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA4	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA5	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA6	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA7	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA8	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA9	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA10	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA11	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA12	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA13	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA14	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA15	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA16	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA17	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA18	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA19	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA20	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA21	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA22	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA23	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA24	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA25	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA26	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA27	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA28	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA29	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA30	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA31	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA46	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA47	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA48	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA49	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA50	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA51	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA52	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA53	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA54	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA55	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA56	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA57	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA58	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA59	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA60	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA61	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA62	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		RA63	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA64	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA65	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA66	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA67	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA72	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA73	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA74	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA75	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA76	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA77	0RHZTCZ001A	RCA SMART 100OHM 1/16 W 5% 3
		RA78	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA79	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA80	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA81	0RHZTCZ001E	RCA SMART 47OHM 1/16 W 5% 32
		RA603	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
		RA604	0RHZTCZ001D	RCA86TRJ22R0 SMART 22OHM 1/1
	OTHERs			
		X1	6212AA2004H	HC-49U TXC 6MHZ +/- 30 PPM 2
		X2	6212AA2004B	HC-49U TXC 20.0MHZ +/- 30 PP
		X3	6212AA2004F	HC-49U TXC 14.318 MHZ +/- 30
		X4	6212AA2004G	HC-49U TXC 13.5MHZ +/- 30 PP
		X601	6202TST003C	HC-49/SM5H KONY CHIP 20.25MH
		X7	6212AC2002A	6H26 TXC 32.768KHZ +/- 30 PP
		X8	6212AA2004K	HC-49U TXC 4MHZ +/- 30 PPM 2
	INTERFACE BOARD			
		C101	0CZZTAT006C	RV2-16V470MU-R ELNA 16V 47UF
		C120	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C119	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C118	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C117	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C116	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C115	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C113	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C112	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C111	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C110	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C109	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C108	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C106	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C105	0CZZTAT006C	RV2-16V470MU-R ELNA 16V 47UF
		C104	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C103	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C102	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		D111	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D109	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D101	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		ZD102	0DZ910009FE	UDZS 9.1B TP ROHM - - 9.1V -
		ZD101	0DZ910009FE	UDZS 9.1B TP ROHM - - 9.1V -
		R132	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R131	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R130	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R129	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R128	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R127	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R126	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R125	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R124	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R122	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R121	0RJ1003D677	100K OHM 1/10 W 5% 1608 R/TP
		R120	0RJ1003D677	100K OHM 1/10 W 5% 1608 R/TP
		R119	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R118	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R117	0RJ2702D677	27K OHM 1/10 W 5% 1608 R/TP
		R116	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R115	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		R114	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R113	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R112	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R111	0RJ2702D677	27K OHM 1/10 W 5% 1608 R/TP
		R110	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R109	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		R108	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R106	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R105	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R104	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R103	0RJ2702D677	27K OHM 1/10 W 5% 1608 R/TP
		R102	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R101	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T
		Q103	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q102	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q101	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		IC104	0IPMGKE036A	KIA78DL09F KEC DPARK R/TP 9V
		IC103	0IPRPAD019A	“AD8091 ANALOG DEVICE 5P,SOT2”
		IC102	0IPRPAD019A	“AD8091 ANALOG DEVICE 5P,SOT2”
		IC101	0IPRPAD019A	“AD8091 ANALOG DEVICE 5P,SOT2”
		FB102	6210TCE001B	HH-1H3216-500JT CERATEC 3216
		FB101	6210TCE001B	HH-1H3216-500JT CERATEC 3216
	CONTROL BOARD			
		C1103	0CN1030F679	10000P 16V M Y TA52
		C1102	0CN1040K949	0.1M 50V Z F TA52
		C1101	0CN1040K949	0.1M 50V Z F TA52
		D1101	0DZ510009BE	GDZ5.1B TP GRANDE DO34 500MW
		R1106	0RN1201F409	1.20K 1/6W 1% TA52
		R1105	0RN7500F409	750 1/6W 1% TA52
		R1104	0RN5100F409	510 1/6W 1 TA52
		R1103	0RN3900F409	390 1/6W 1% TA52
		R1102	0RN2700F409	270 1/6W 1% TA52
		R1101	0RN2001F409	2K OHM 1/6 W 1.00% TA52
		S1106	140-058E	SKHV10910B LGEC NON 12V 20A
		S1105	140-058E	SKHV10910B LGEC NON 12V 20A
		S1104	140-058E	SKHV10910B LGEC NON 12V 20A
		S1103	140-058E	SKHV10910B LGEC NON 12V 20A
		S1102	140-058E	SKHV10910B LGEC NON 12V 20A
		S1101	140-058E	SKHV10910B LGEC NON 12V 20A
		FB1101	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
	SOUND BOARD			
		C301	0CC1010K405	100P 50V J SL TS
		C302	0CC1010K405	100P 50V J SL TS
		C303	0CZZTAT007H	RE3-50V100ME3#-T2 ELNA 50V 1
		C304	181-288H	MKT 100V 333JTR PHS 86333
		C305	181-288H	MKT 100V 333JTR PHS 86333
		C306	0CK1030K945	0.01UF 50V Z F TR
		C307	181-288H	MKT 100V 333JTR PHS 86333
		C308	0CZZTAT007H	RE3-50V100ME3#-T2 ELNA 50V 1
		C309	0CZZTAT007H	RE3-50V100ME3#-T2 ELNA 50V 1

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C310	0CQ2231N419	0.022UF 100V J PE NI TP
		C311	0CZZTAT007G	RE3-50V4R7ME3#-T2 ELNA 50V 4
		C313	0CZZTFT001L	ECQB1H822JM3 822J 50V TP5.0
		C314	0CZZTAT007F	RE3-50V3R3ME3#-T2 ELNA 50V 3
		C315	0CK1030K945	0.01UF 50V Z F TR
		C316	0CK1030K945	0.01UF 50V Z F TR
		C317	0CZZTAT005B	RJ4-16V101MX ELNA 16V 100UF
		C318	0CK2230K945	0.022UF 50V Z F TR
		C319	0CZZTFT001V	ECQB1H473JM3 473J 50V TP5.0
		C320	181-288H	MKT 100V 333JTR PHS 86333
		C321	0CQ2231N419	0.022UF 100V J PE NI TP
		C322	0CK1030K945	0.01UF 50V Z F TR
		C323	0CK1030K945	0.01UF 50V Z F TR
		C326	0CZZTAT007G	RE3-50V4R7ME3#-T2 ELNA 50V 4
		C327	0CZZTAT007B	RE3-16V470ME3#-T2 ELNA 16V 4
		C328	0CZZTAT007H	RE3-50V100ME3#-T2 ELNA 50V 1
		C329	0CZZTAT007D	RE3-35V331MH3#-T2 ELNA 35V 3
		C331	0CK1040K945	0.1UF 50V Z F TR
		C332	0CZZTAT007C	RE3-25V221MG3#-T2 ELNA 25V 2
		C334	0CZZTAT007B	RE3-16V470ME3#-T2 ELNA 16V 4
		C335	0CK1040K945	0.1UF 50V Z F TR
		C346	0CZZTFT001L	ECQB1H822JM3 822J 50V TP5.0
		C351	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C352	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C353	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C354	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C355	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C356	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C357	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C358	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		C359	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		C360	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C361	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C362	0CH6221K416	220PF 50V J NP0 2012 R/TP
		C363	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		C364	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		C365	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		C366	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		C367	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		C368	0CZZTAT006A	RV2-16V100MU-R ELNA 16V 10UF
		C369	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C370	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C371	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C372	0CH3474H946	"0.47UF 25V 80%,-20% F(Y5V) 2"
		C373	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C374	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C375	0CH3105H946	"1UF 25V 80%,-20% F(Y5V) 2012"
		D301	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D302	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D303	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D304	0DS226009AA	KDS226 TP KEC SOT-23 80V 30
		D305	0DD140009AA	EK14 V(1) TP SANKEN E/EO-TMD
		FB301	125-155G	BFS3550R2FG SAMWHA 3.5*5MM R
		IC301	0IPRPTO015A	"TA1343N TOSHIBA 24P,SDIP ST"
		IC302	0IPMGKE036A	KIA78DL09F KEC DPARK R/TP 9V
		IC351	0IPRPTI030A	TPA3002D2PHP TEXAS INSTRUMEN
		L351	6140TBZ007E	"SLF12575T-330M3R2,TDK SMD CH"
		L352	6140TBZ007E	"SLF12575T-330M3R2,TDK SMD CH"
		L353	6140TBZ007E	"SLF12575T-330M3R2,TDK SMD CH"
		L354	6140TBZ007E	"SLF12575T-330M3R2,TDK SMD CH"
		Q301	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC T
		Q304	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R301	0RH4703D622	470K 1/10W 5 D.R/TP
		R302	0RH4703D622	470K 1/10W 5 D.R/TP
		R303	0RH1000D622	100 1/10W 5 D.R/TP
		R304	0RH1000D622	100 1/10W 5 D.R/TP
		R305	0RH1000D622	100 1/10W 5 D.R/TP
		R306	0RH1000D622	100 1/10W 5 D.R/TP
		R307	0RH1000D622	100 1/10W 5 D.R/TP
		R308	0RH1000D622	100 1/10W 5 D.R/TP
		R313	0RH2702D622	27K 1/10W 5 D.R/TP
		R314	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R315	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R316	0RH6801D622	6.8K 1/10W 5 D.R/TP
		R317	0RJ2002D477	20K OHM 1/10 W 1% 1608 R/TP
		R318	0RJ3302D477	33K OHM 1/10 W 1% 1608 R/TP
		R319	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R320	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R321	0RJ1001D477	1K OHM 1/10 W 1% 1608 R/TP
		R351	0RH1203D622	120K OHM 1 / 10 W 5% D R/TP
TEMP.SENSOR BOARD				
		C501	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C502	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C503	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C504	0CZZTAT006D	RV2-16V101MSU-R ELNA 16V 100
		IC502	0IKE358000P	KIA358F 8P FLP-8 TP OP-AMP D
		R501	0RJ1000D477	100 OHM 1/10 W 1% 1608 R/TP
		R502	0RJ1001D477	1K OHM 1/10 W 1% 1608 R/TP
		R503	0RJ3901D677	3.9K OHM 1/10 W 5% 1608 R/TP
		R504	0RJ6801D477	6.8K OHM 1/10 W 1% 1608 R/TP
LED & POWER SWITCH BOARD				
		C1202	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1203	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1204	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP F"
		C1205	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP F"
		D1201	0DLLT0238AA	LITEON LTST-C155KGJRKT R/TP
		D1202	0DLLT0238AA	LITEON LTST-C155KGJRKT R/TP
		D1203	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		D1204	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		IC1201	6726TV0001A	TSOP4838SO1 VISHAY 38.0KHZ H
		R1201	0RJ1211D477	1.21K OHM 1/10 W 1% 1608 R/T
		R1202	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
		R1203	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1204	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R1205	0RJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		S1201	6600R00004A	JTP1138A6EM JEIL 12VDC 50MA
ETC SWITCH BOARD				
		C303	0CN1040K949	0.1M 50V Z F TA52
		C1301	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1302	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1303	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1304	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1305	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1306	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1307	0CH6150K416	15PF 50V J NP0 2012 R/TP
		C1308	0CH6150K416	15PF 50V J NP0 2012 R/TP
		FB1301	6210TCE001B	HH-1H3216-500JT CERATEC 3216
		FB1302	6210TCE001B	HH-1H3216-500JT CERATEC 3216

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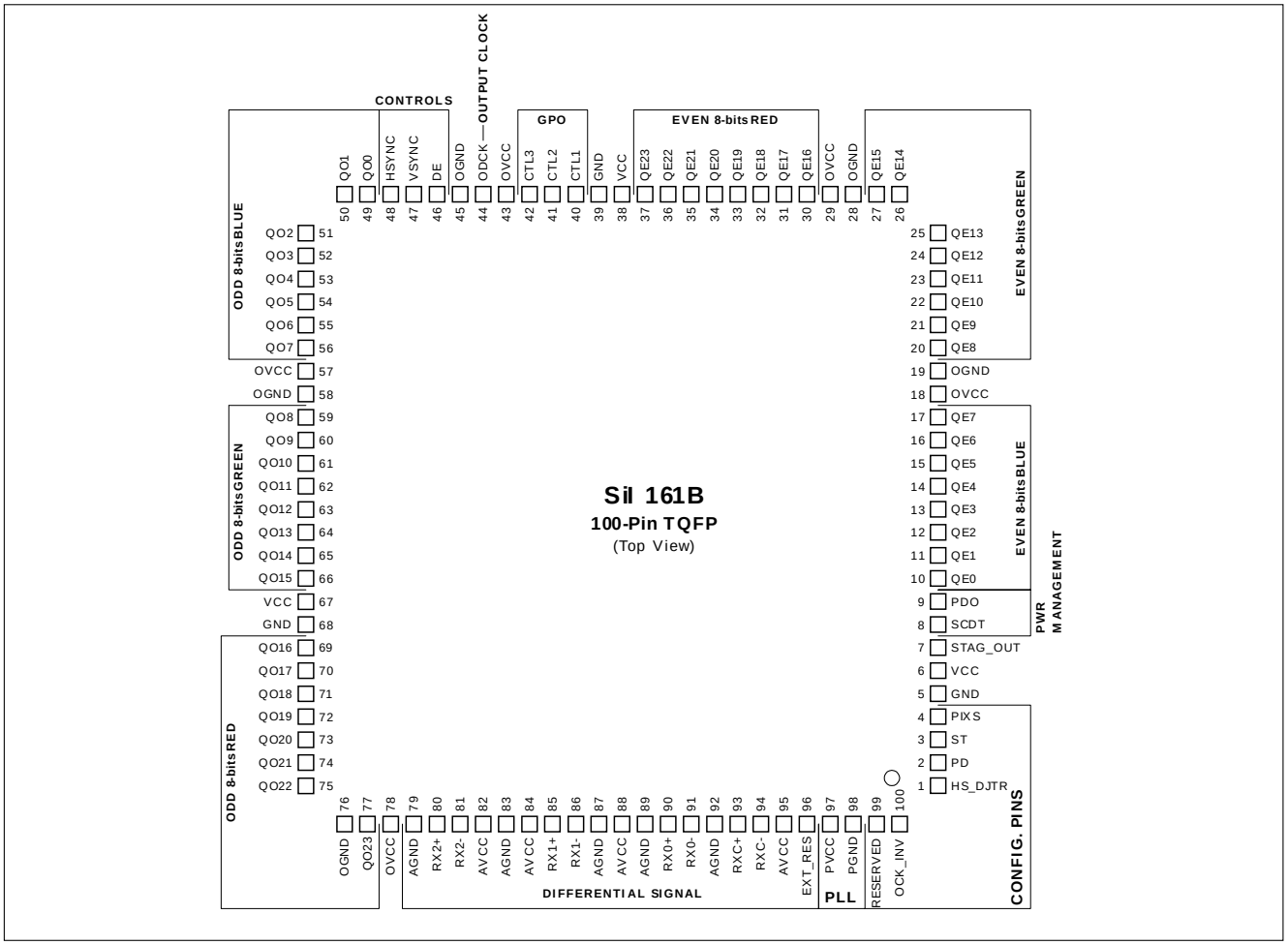
		FB1303	6210TCE001B	HH-1H3216-500JT CERATEC 3216
		FB1304	6210TCE001B	HH-1H3216-500JT CERATEC 3216
		IC501	0IPRPNS030A	LM35DZ NATIONAL SEMICONDUCTO
		R301	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R302	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R303	0RD4701Q609	4.70K 1/4W(3 5% TA52

PIN CONFIGURATION

SIL161BCT100



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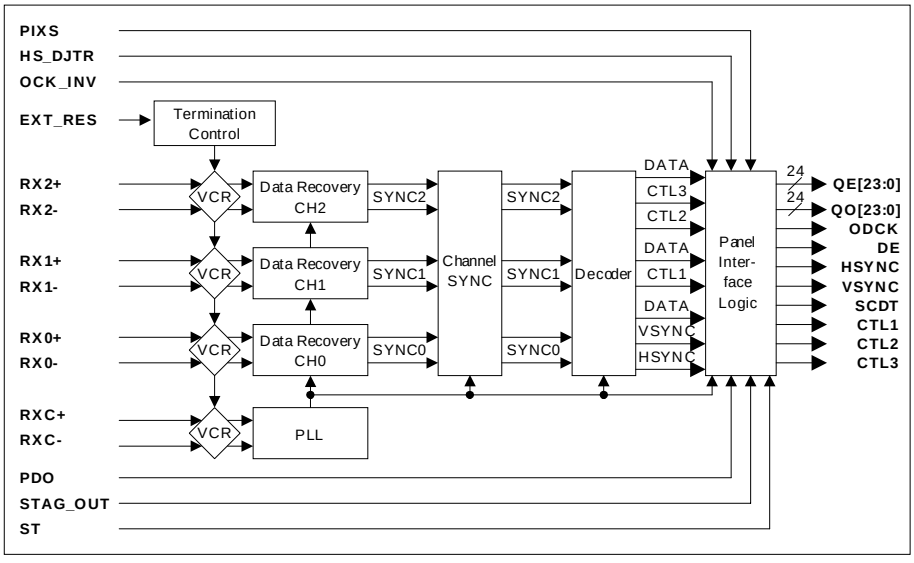
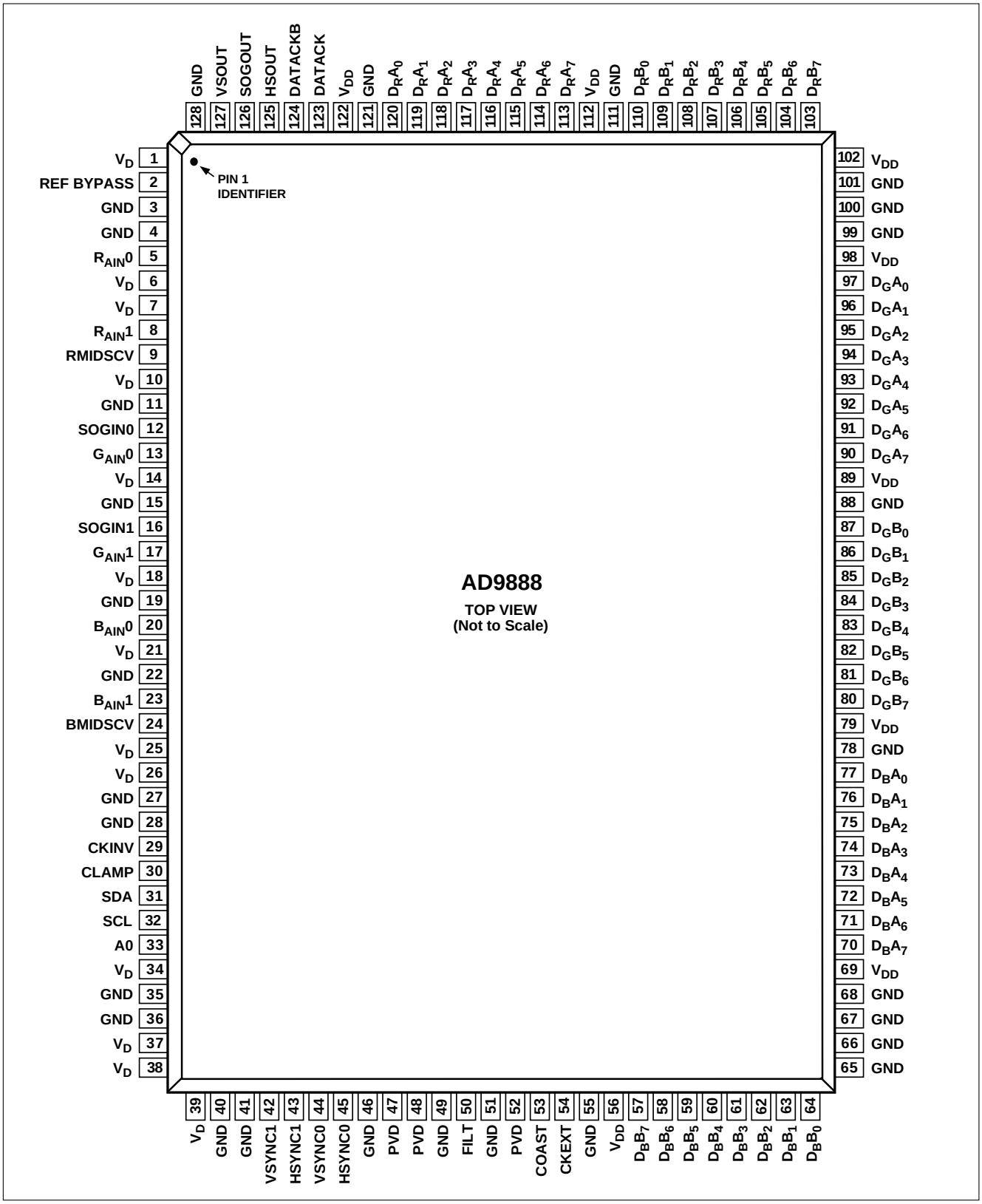


BLOCK DIAGRAM

AD988KS-205 ANALOG



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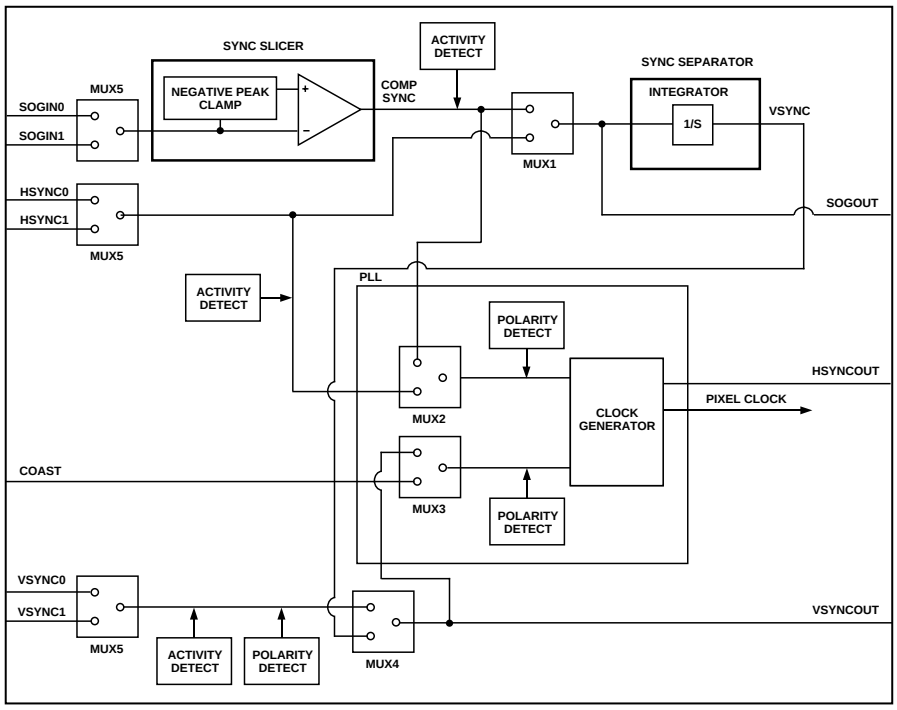
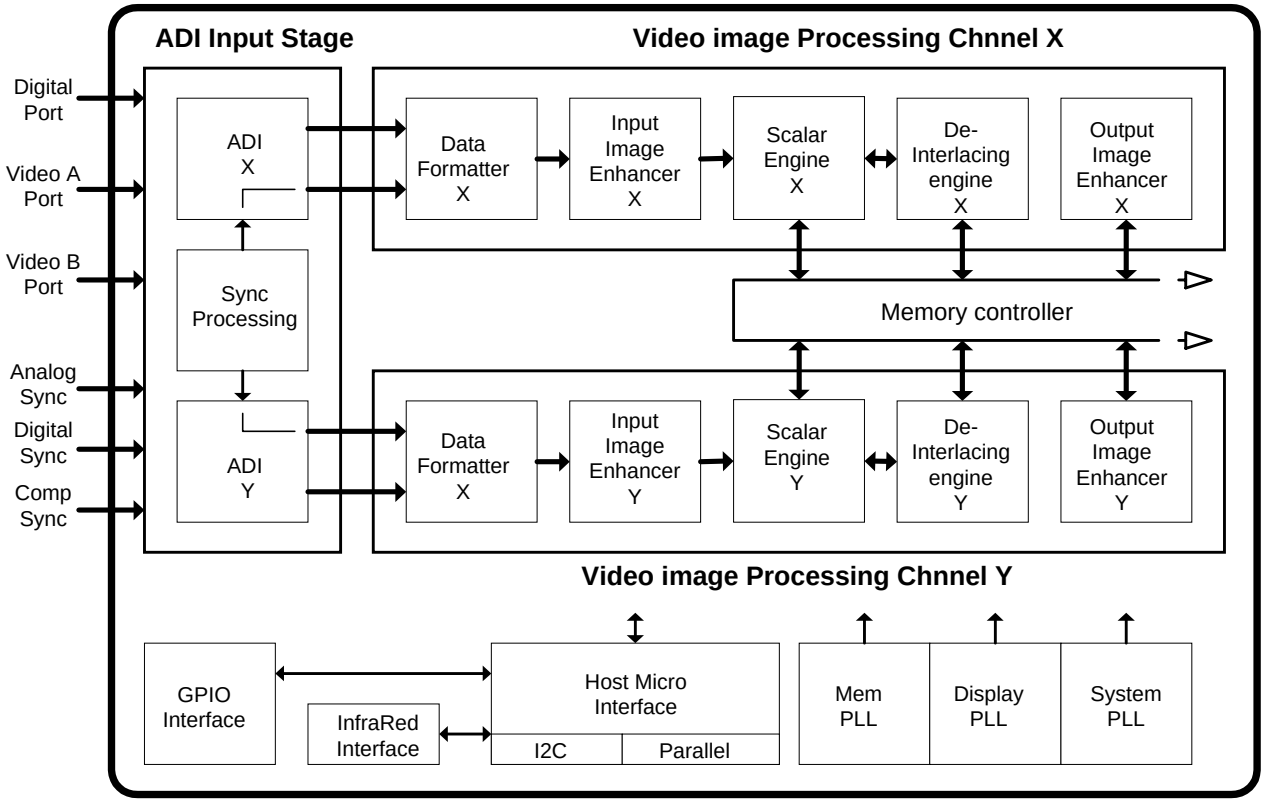


BLOCK DIAGRAM

ASI510(42”PDP) AURORA



BLOCK DIAGRAM

SCHEMATIC DIAGRAM

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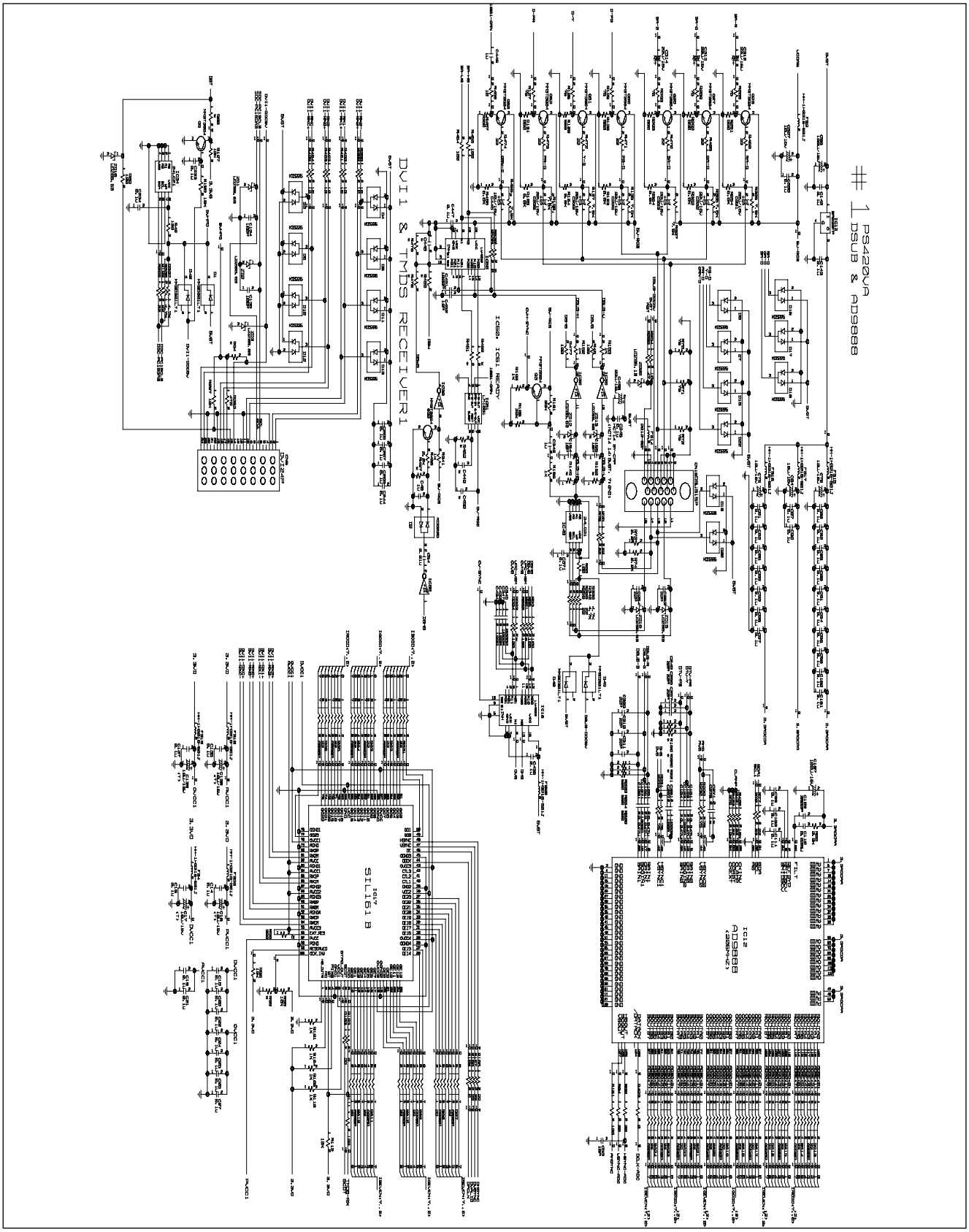
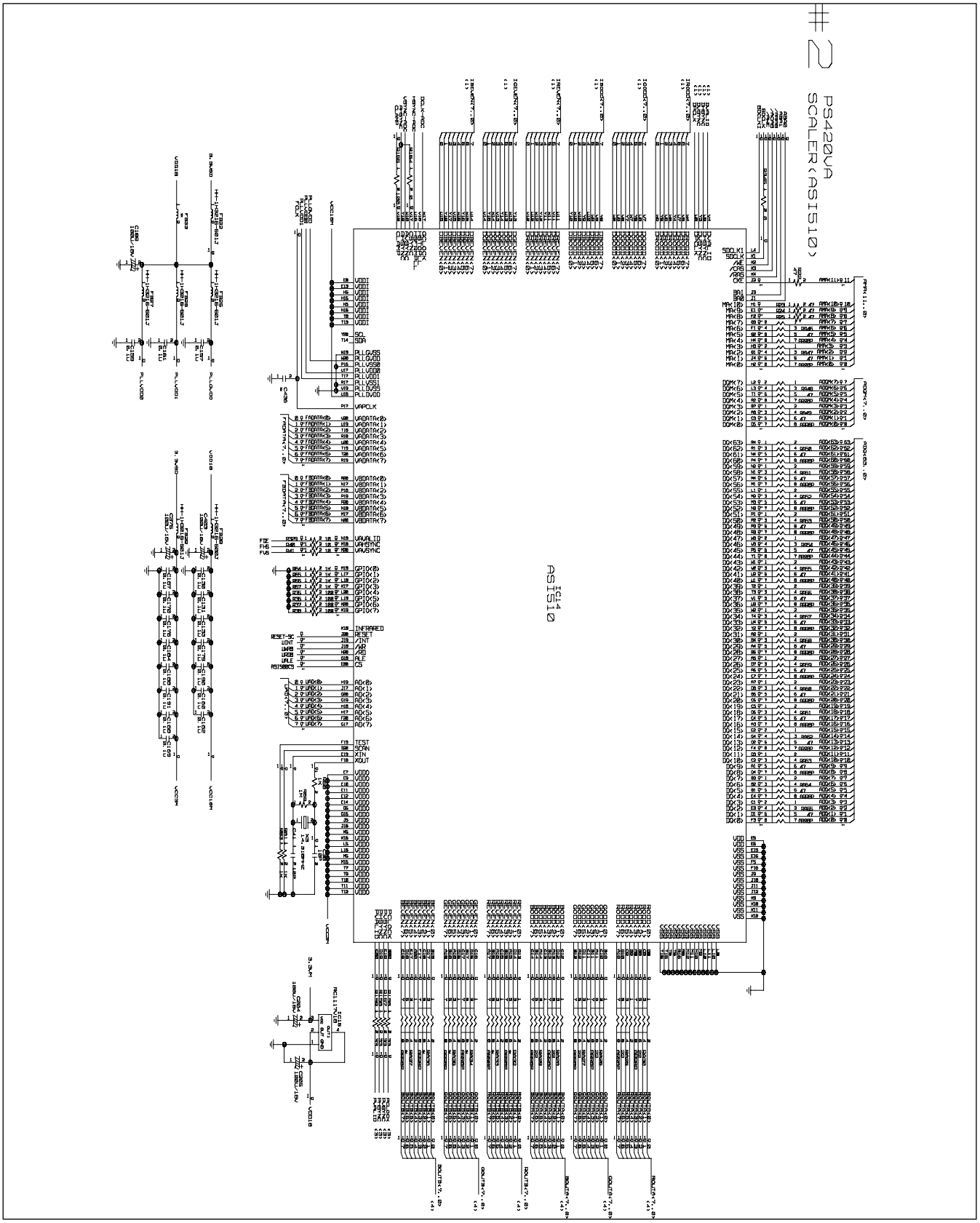
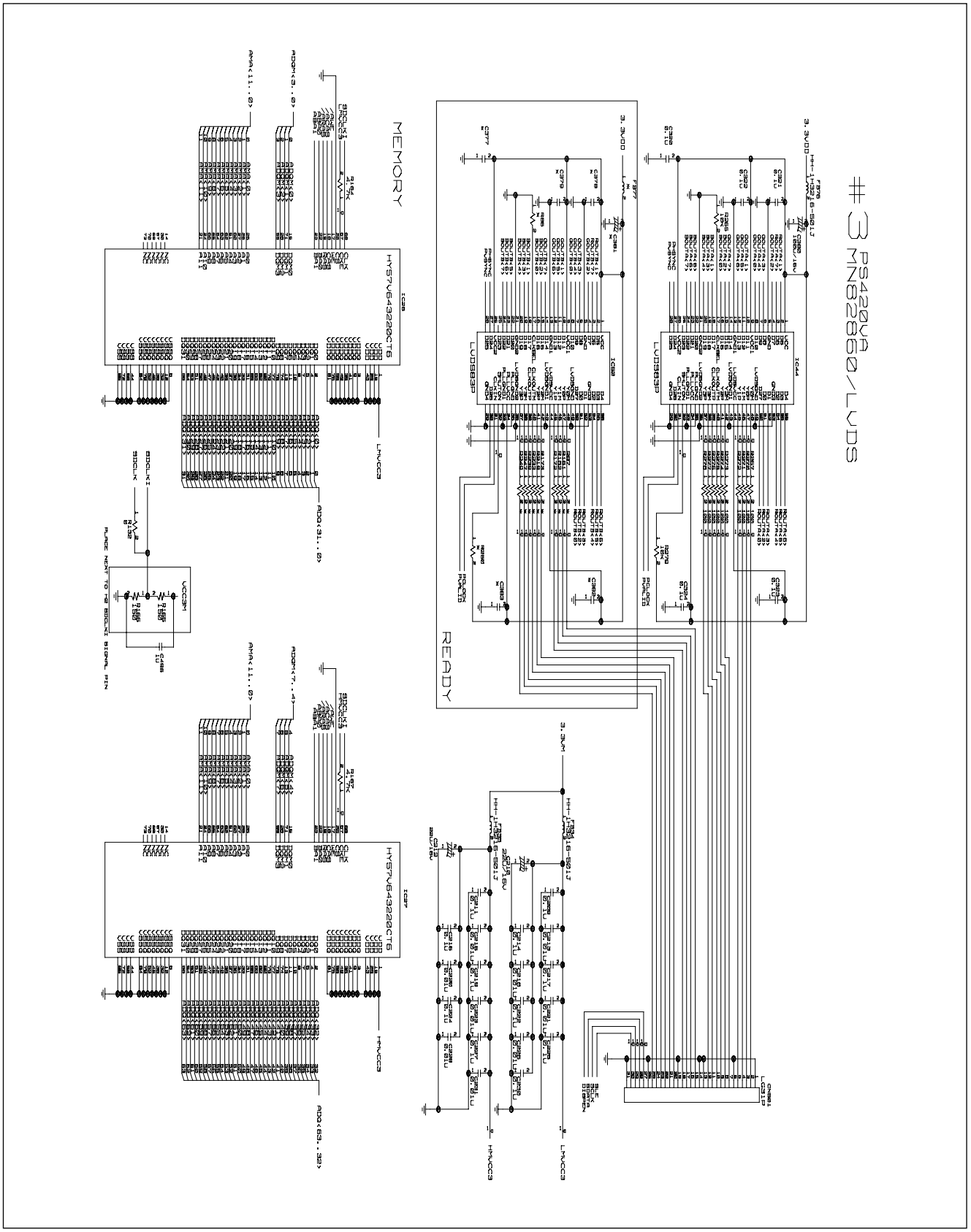
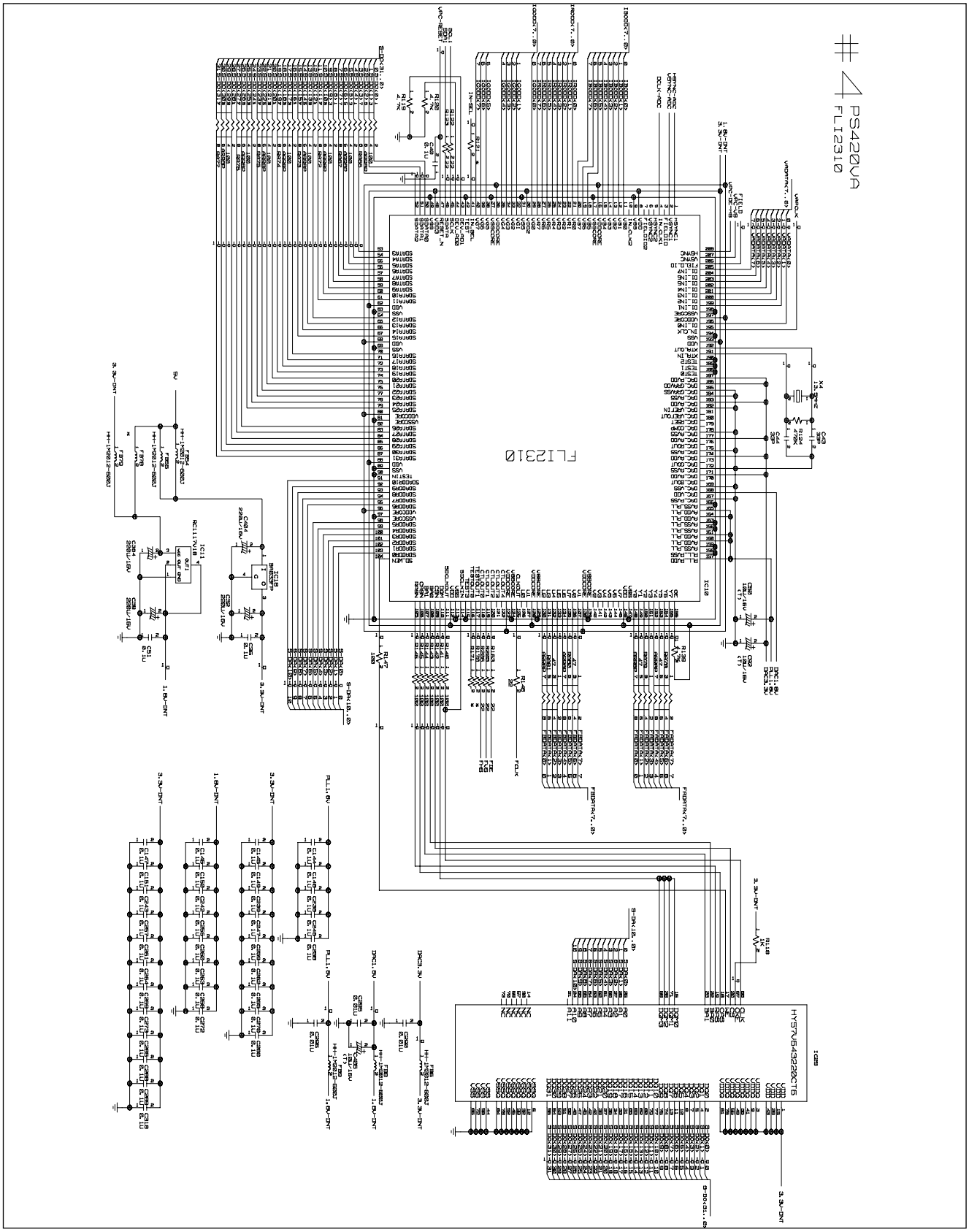


2. SCALER(ASI510)




#3 PS420VA MN82860/LVDS
MEMORY
READY

4. FLI2310



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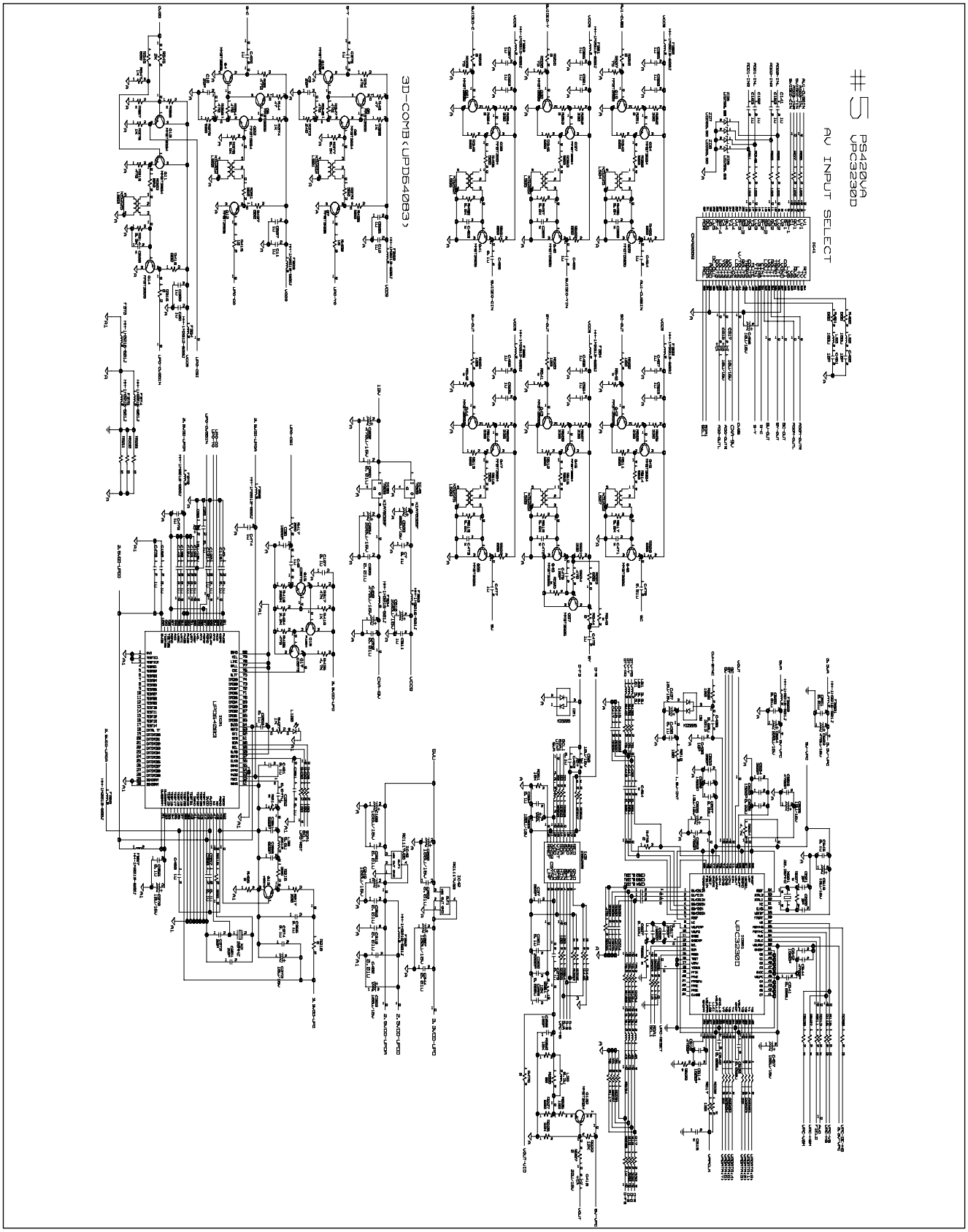
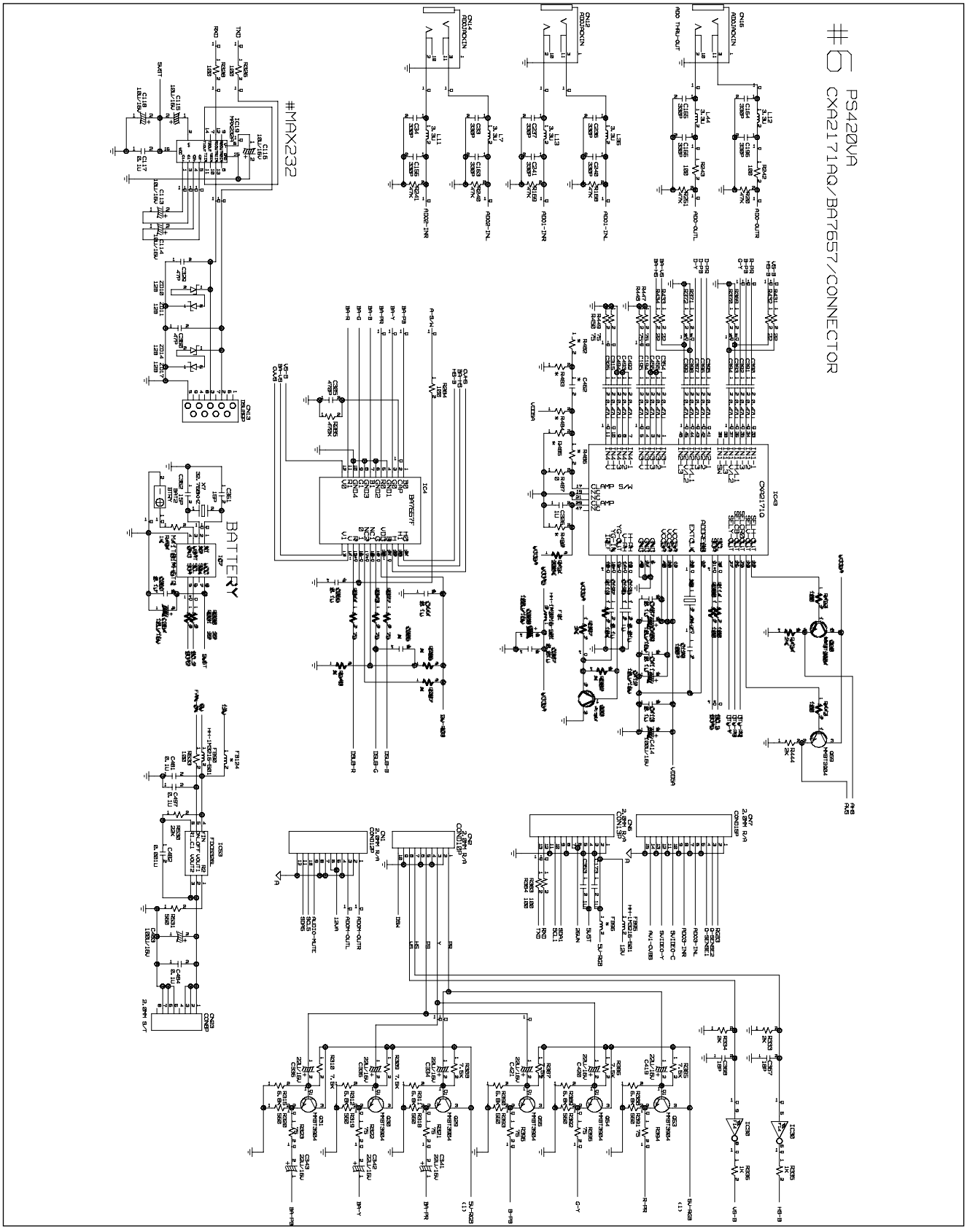
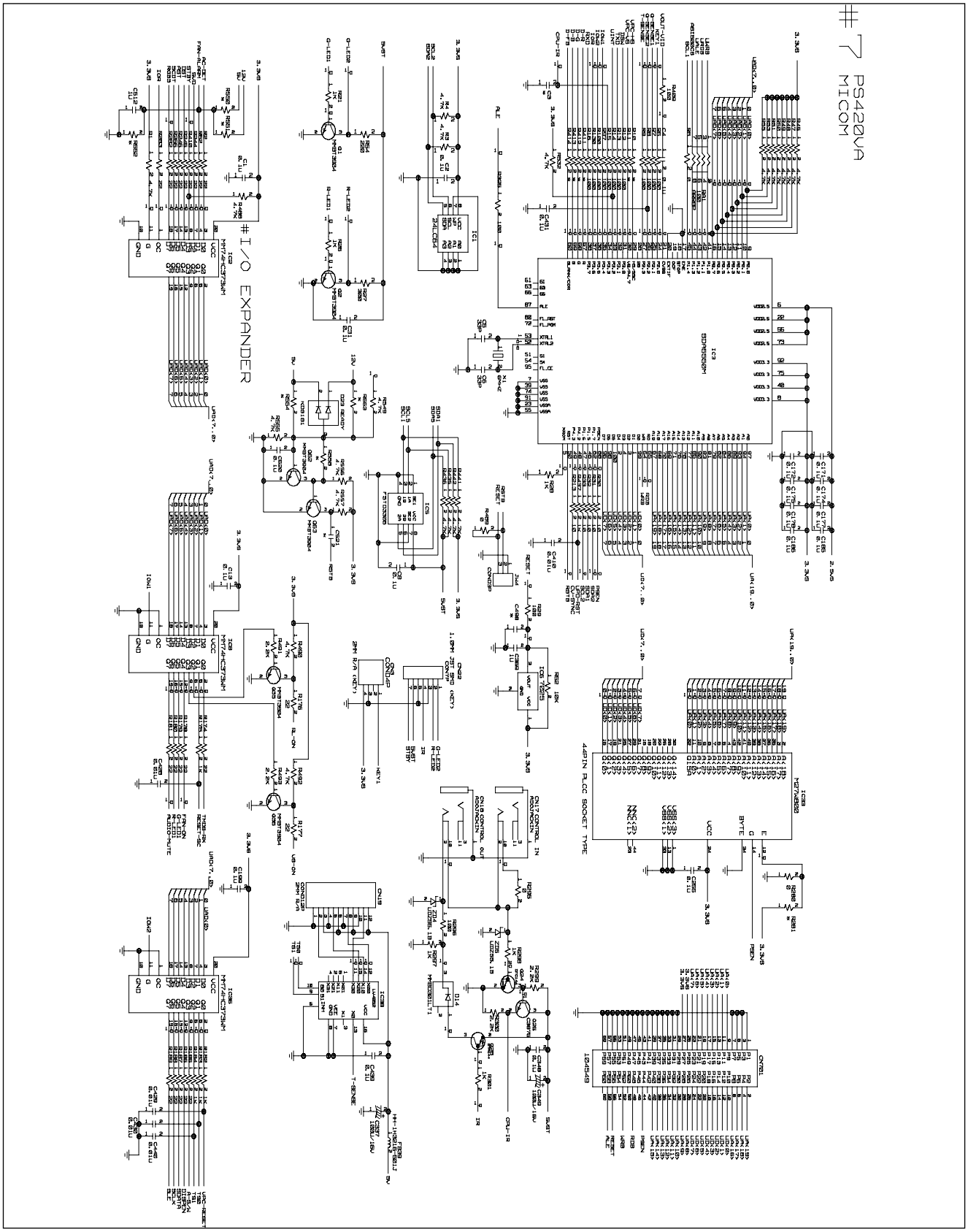


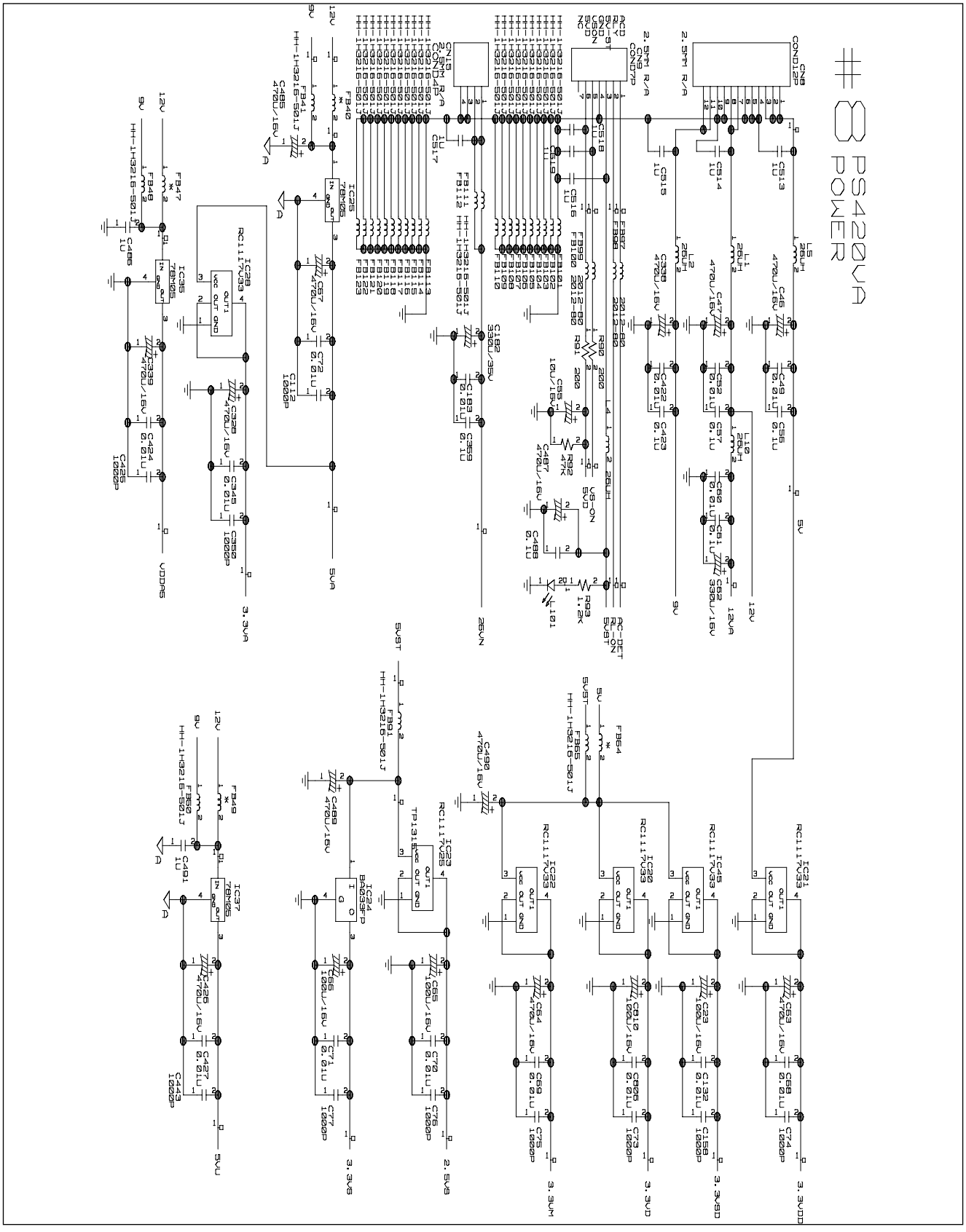
6. CXA2171AQ/BA7657/CONNECTOR



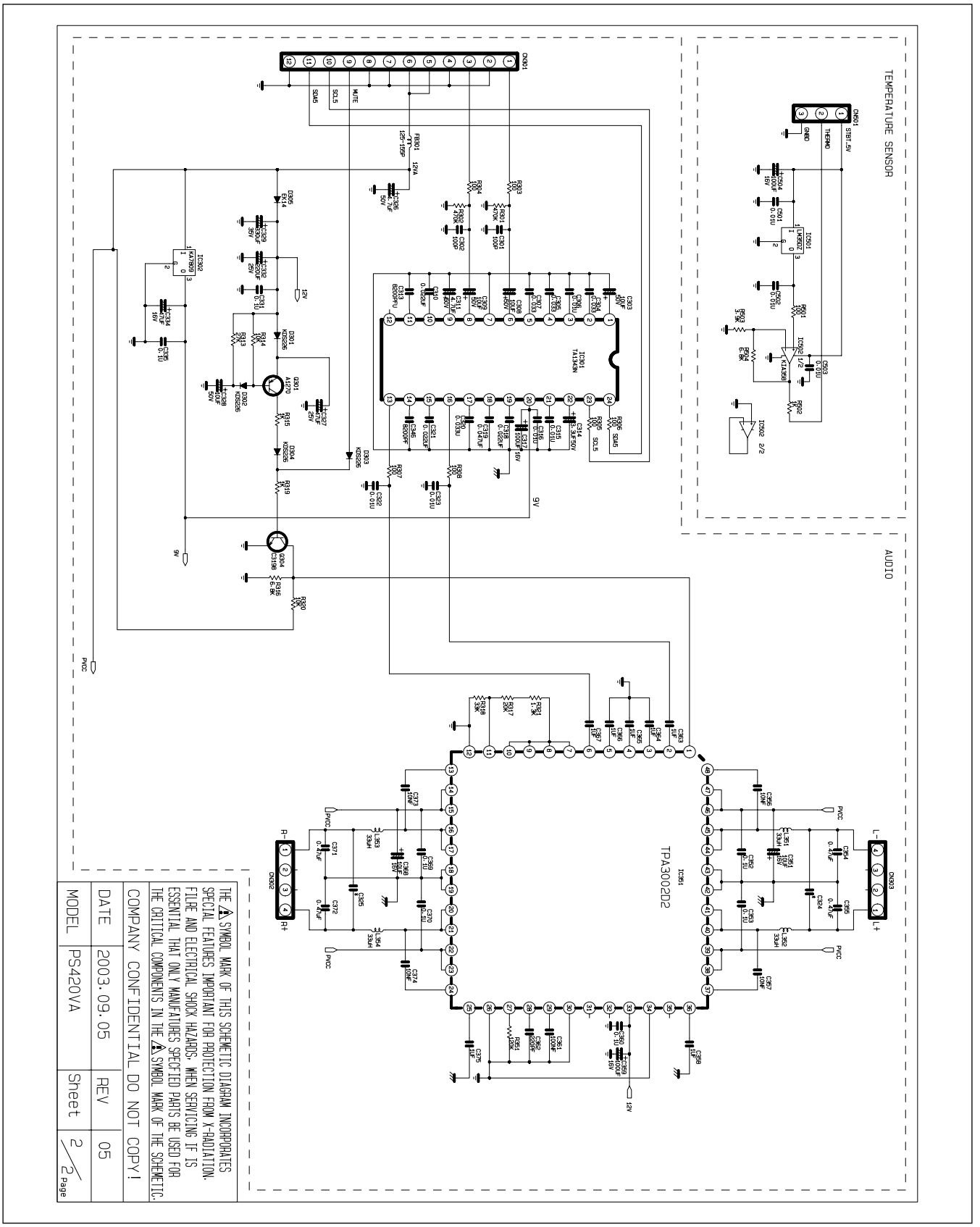
7. MICOM



8. POWER



9. AUDIO


TEMPERATURE SENSOR
AUDIO
CN501
STBY_5V
GND
THERMO
IC501
KA5M0265
IC502
KIA393B
CN303
CN301
SDA5
SCL5
MUTE
IC301
TA1343N
IC351
TPA3002D2
CN302
R+
CN303
L+
PVCC
9V
12V
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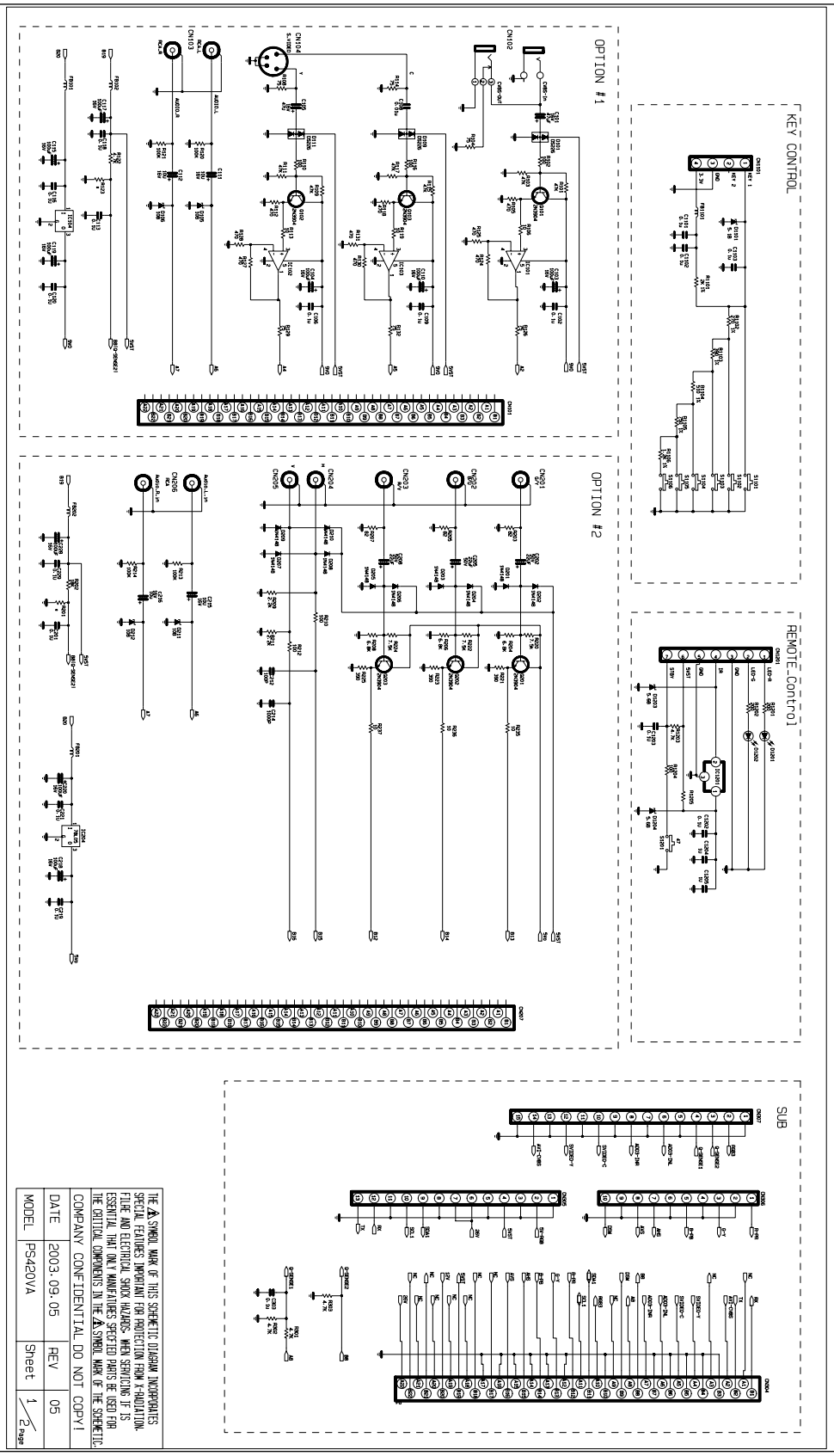
10. OPTION



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Sep. 2003
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